

L Number	Hits	Search Text	DB	Time stamp
1	5	("3499047") or ("4046820").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 06:32
2	22	gorton-earl-m.in. or olinger-ronald-d.in. or miller-stephen-d.in. or haborak-dana-m.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 06:56
3	14	("3265747") or ("4069265") or ("4351973") or ("4992604") or ("5405891") or ("5654430") or ("6150573").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 07:14
4	29	("3251891") or ("3265741") or ("3281480") or ("3499047") or ("3532761") or ("3535392") or ("4018837") or ("4309301") or ("4324928") or ("4351973").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 07:20
5	434159	silica	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 07:20
6	0	((("3251891") or ("3265741") or ("3281480") or ("3499047") or ("3532761") or ("3535392") or ("4018837") or ("4309301") or ("4324928") or ("4351973").PN.) and silica	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 07:20
7	30	("5569794") or ("4942267") or ("4424147") or ("4026956") or ("4018837") or ("4016215") or ("3767585") or ("3546304") or ("3406213") or ("3384673") or ("2841625") or ("3956162").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:07
9	294436	(2,2,6,6-tetramethyl (20a) piperidin\$6) or (2,2,5,5-tetramethyl (20a) pyrrolidin\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:09
10	0	((("5569794") or ("4942267") or ("4424147") or ("4026956") or ("4018837") or ("4016215") or ("3767585") or ("3546304") or ("3406213") or ("3384673") or ("2841625") or ("3956162").PN.) and ((2,2,6,6-tetramethyl (20a) piperidin\$6) or (2,2,5,5-tetramethyl (20a) pyrrolidin\$6)))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:10
11	1	silica and ((("5569794") or ("4942267") or ("4424147") or ("4026956") or ("4018837") or ("4016215") or ("3767585") or ("3546304") or ("3406213") or ("3384673") or ("2841625") or ("3956162").PN.))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:12
12	5977	silica and (trichloroethane or (methyl adj chloroform) or 1,1,1-trichloroethane)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:17
13	2864	(silica and (trichloroethane or (methyl adj chloroform) or 1,1,1-trichloroethane)) and (stabiliz\$4 or inhibitor)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:15
14	1443	((silica and (trichloroethane or (methyl adj chloroform) or 1,1,1-trichloroethane)) and (stabiliz\$4 or inhibitor)) and (silica adj gel or precipitated adj silica or fumed adj silica)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:18
15	19222	(trichloroethane or (methyl adj chloroform) or 1,1,1-trichloroethane)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:17
16	143351	(silica adj gel or precipitated adj silica or fumed adj silica)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:18

18	78	((silica and (trichloroethane or (methyl adj chloroform) or 1,1,1-trichloroethane)) and (stabiliz\$4 or inhibitor)) and (((trichloroethane or (methyl adj chloroform) or 1,1,1-trichloroethane)) same ((silica adj gel or precipitated adj silica or fumed adj silica)))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:18
17	213	((trichloroethane or (methyl adj chloroform) or 1,1,1-trichloroethane)) same ((silica adj gel or precipitated adj silica or fumed adj silica))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/03/22 08:22

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PASSWORD:

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NEWS 10 DEC 08 CABA reloaded with left truncation
NEWS 11 DEC 08 IMS file names changed
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NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/CAplus
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NEWS 15 DEC 18 BIOTECHNO no longer updated
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer available
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NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19 DEC 22 ABI-INFORM now available on STN
NEWS 20 JAN 27 Source of Registration (SR) information in REGISTRY updated and searchable
NEWS 21 JAN 27 A new search aid, the Company Name Thesaurus, available in CA/CAplus
NEWS 22 FEB 05 German (DE) application and patent publication number format changes
NEWS 23 MAR 03 MEDLINE and LMEDLINE reloaded
NEWS 24 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 25 MAR 03 FRANCEPAT now available on STN

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DICTIONARY FILE UPDATES: 19 MAR 2004 HIGHEST RN 665776-10-3

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<http://www.cas.org/ONLINE/DBSS/registryss.html>

```

=> s "bis(2,2,6,6-tetramethyl-1-piperdinyloxy-4-yl) sebacate"
    2793902 "BIS"
        27301 "2,2,6,6"
        325662 "TETRAMETHYL"
    14629221 "1"
        0 "PIPERDINYLOXY"
    13483301 "4"
    11585405 "YL"
        663 "SEBACATE"
L1        0 "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL) SEBACATE"
                ("BIS" (W) "2,2,6,6" (W) "TETRAMETHYL" (W) "1" (W) "PIPERDINYLOXY" (W) "
                    4" (W) "YL" (W) "SEBACATE")

=> s "bis(2,2,6,6-tetramethyl-1-piperdinyloxy-4-yl) sebacate"/cn
L2        0 "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL) SEBACATE" /CN

```

=> file stnguide
COST IN U.S. DOLLARS
SINCE FILE ENTRY TOTAL
SESSION
FULL ESTIMATED COST 40 71 40 92

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LAST RELOADED: Mar 19, 2004 (20040319/UP).

```
=> file stnguide
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY           SESSION
FULL ESTIMATED COST          0.48            41.40
```

FILE 'STNGUIDE' ENTERED AT 02:46:42 ON 22 MAR 2004
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Mar 19, 2004 (20040319/UP).

```
=> file rg
'RG' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'STNGUIDE'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available. If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.
```

```
=> file reg
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                                ENTRY           SESSION
FULL ESTIMATED COST          0.66            42.06
```

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information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=> ....Testing the current file.... screen
```

```
ENTER SCREEN EXPRESSION OR (END) :end
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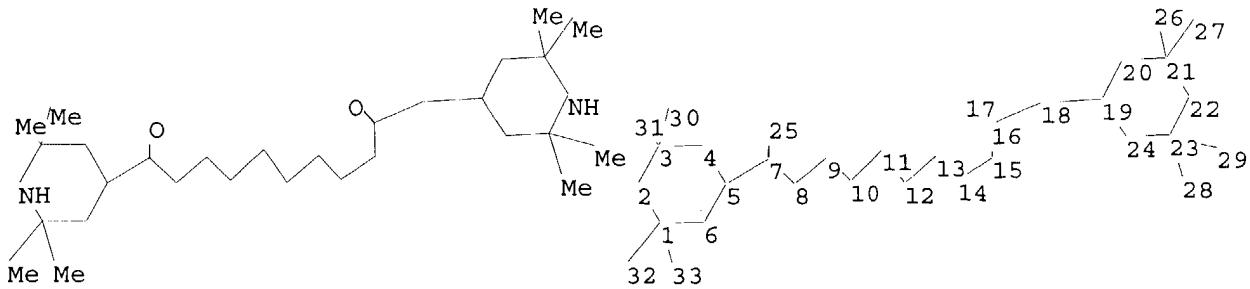
```
=> screen 966
```

```
L3      SCREEN CREATED
```

```
=> screen 2016 OR 2021
```

```
L4      SCREEN CREATED
```

```
=>
Uploading C:\Program Files\Stnexp\Queries\10648976.str
```



chain nodes :

7 8 9 10 11 12 13 14 15 16 17 18 25 26 27 28 29 30 31 32 33

ring nodes :

1 2 3 4 5 6 19 20 21 22 23 24

chain bonds :

1-32 1-33 3-30 3-31 5-7 7-8 7-25 8-9 9-10 10-11 11-12 12-13 13-14

14-15 15-16 16-17 16-18 18-19 21-26 21-27 23-28 23-29

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 19-20 19-24 20-21 21-22 22-23 23-24

exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-25 16-17 19-20 19-24 20-21 21-22 22-23 23-24

exact bonds :

1-32 1-33 3-30 3-31 5-7 7-8 8-9 9-10 10-11 11-12 12-13 13-14 14-15

15-16 16-18 18-19 21-26 21-27 23-28 23-29

isolated ring systems :

containing 1 : 19 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS
 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:CLASS 27:CLASS
 28:CLASS 29:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS

L5 STRUCTURE UPLOADED

=> que L5 AND L3 NOT L4

L6 QUE L5 AND L3 NOT L4

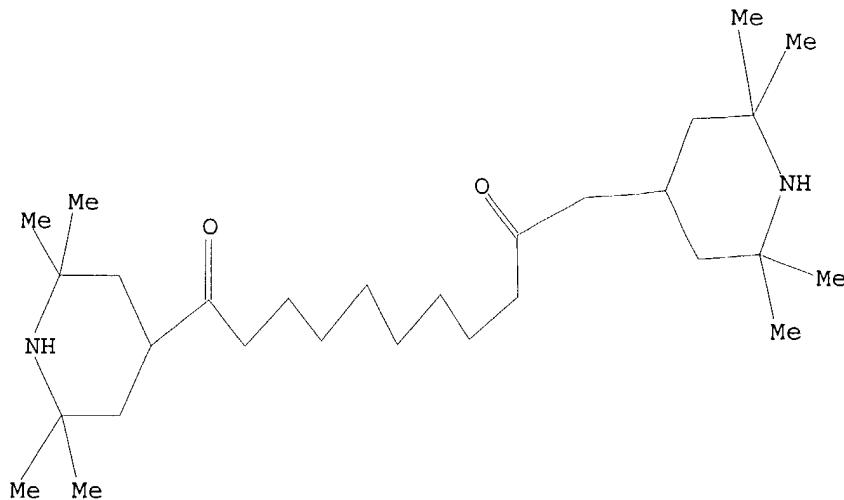
=> d

L6 HAS NO ANSWERS

L3 SCR 966

L4 SCR 2016 OR 2021

L5 STR



Structure attributes must be viewed using STN Express query preparation.
L6 QUE L5 AND L3 NOT L4

```
=> s 16
SAMPLE SEARCH INITIATED 02:53:41 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -          0 TO ITERATE
```

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L5 AND L3 NOT L4

=> s 16 ful
FULL SEARCH INITIATED 02:53:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 22 TO ITERATE

100.0% PROCESSED 22 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L8 0 SEA SSS FUL L5 AND L3 NOT L4

=> s 2,2,6,6-tetramethyl (20a) piperidin
27301 2,2,6,6
0 TETRAMETHYL
0 2,2,6,6-TETRAMETHYL
(2,2,6,6 (W) TETRAMETHYL)

L9 663548 PIPERIDIN?
0 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?

=> s 2,2,6,6-tetramethyl (20a) piperidin?
27301 2,2,6,6

325662 TETRAMETHYL
25823 2,2,6,6-TETRAMETHYL
(2,2,6,6 (W) TETRAMETHYL)

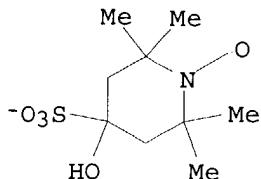
663548 PIPERIDIN?

L10 20223 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?

=> s 2,2,6,6-tetramethyl (20a) piperidinyloxy?
 27301 2,2,6,6
 325662 TETRAMETHYL
 25823 2,2,6,6-TETRAMETHYL
 (2,2,6,6(W)TETRAMETHYL)
 5120 PIPERIDINYLOXY?
 L11 3433 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?

=> d scan

L11 3433 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN 1-Piperidinyloxy, 4-hydroxy-2,2,6,6-tetramethyl-4-sulfo-, ion(1-)
 (9CI)
 MF C9 H17 N O5 S
 CI COM



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus uspatfull
 COST IN U.S. DOLLARS SINCE FILE TOTAL
 FULL ESTIMATED COST ENTRY SESSION
 200.33 242.39

FILE 'CAPLUS' ENTERED AT 03:00:55 ON 22 MAR 2004
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FILE 'USPATFULL' ENTERED AT 03:00:55 ON 22 MAR 2004
 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> s l11
 L12 7767 L11

=> s l12 and (127-18-4 or 71-55-6 or 79-00-5)
 L13 3 L12 AND (127-18-4 OR 71-55-6 OR 79-00-5)

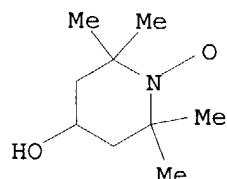
=> dup rem l13
 PROCESSING COMPLETED FOR L13
 L14 3 DUP REM L13 (0 DUPLICATES REMOVED)

=> d 1-3 bib ab fhitstr

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2004:60435 CAPLUS
 DN 140:130113
 TI Method of stabilizing trichloroethane during distillation using stable
 free radicals
 IN Gorton, Earl M.; Olinger, Ronald D.; Miller, Stephen D.
 PA PPG Industries Ohio, Inc., USA
 SO PCT Int. Appl., 17 pp.

CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | | | |
|------|---|--|---|-----------------|----------|----------------|----------|--|
| PI | WO 2004007409 | A1 | 20040122 | WO 2003-US20204 | 20030626 | | | |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | US 2004030203 | A1 | 20040212 | US 2003-436664 | 20030513 | |
| PRAI | US 2002-396460P | P | 20020716 | US 2003-436664 | A | 20030513 | | |
| OS | CASREACT 140:130113 | | | | | | | |
| AB | A method of stabilizing trichloroethane during processing at temps. where trichloroethane is susceptible to thermal decomposition comprises processing trichloroethane in the presence of a stable free radical stabilizer. The stabilizer containing a stable free radical group can be a compound having at least one 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl group, such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy, 2,2,6,6-tetramethyl-4-oxo-1-piperidinyloxy, and 2,2,6,6-tetramethyl-4-[(methylsulfonyl)oxy]-1-piperidinyloxy. Thus, a product from distillation of 1,1,1-trichloroethane in the presence of 2.6 ppm of 4-hydroxy-TEMPO contained 61 ppm of vinylidene chloride (VDC), and a product of distillation of 1,1,1-trichloroethane without such an additive contained 212 ppm of VDC. | | | | | | | |
| IT | 2226-96-2, 4-Hydroxy-TEMPO | RL: NUU (Other use, unclassified); USES (Uses) | (Petroflo 20Y104; method of stabilizing trichloroethane during distillation using stable free radicals) | | | | | |
| RN | 2226-96-2 CAPLUS | | | | | | | |
| CN | 1-Piperidinyloxy, 4-hydroxy-2,2,6,6-tetramethyl- (9CI) | (CA INDEX NAME) | | | | | | |

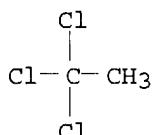


RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:162519 CAPLUS
TI Stabilization of trichloroethanes using a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy free radical stabilizer
IN Gorton, Earl M.; Olinger, Ronald D.
PA USA
SO U.S. Pat. Appl. Publ., 6 pp., Cont.-in-part of U.S. Ser. No. 436,664.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

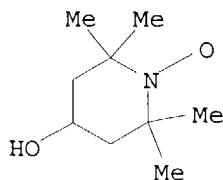
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

PI US 2004039237 A1 20040226 US 2003-648972 20030827
 US 2004030203 A1 20040212 US 2003-436664 20030513
 PRAI US 2002-396460P P 20020716
 US 2003-436664 A2 20030513
 AB Trichloroethanes are stabilized with a catalytic amount of a stable free radical stabilizer [e.g., a material having a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl free radical group such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy].
 IT 71-55-6, 1,1,1-Trichloroethane
 RL: TEM (Technical or engineered material use); USES (Uses)
 (stabilization of trichloroethanes using a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy free radical stabilizer)
 RN 71-55-6 CAPLUS
 CN Ethane, 1,1,1-trichloro- (8CI, 9CI) (CA INDEX NAME)



L14 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:8627 CAPLUS
 DN 128:61255
 TI Decomposition inhibitors containing 1-oxylpiperidines and inhibition of decomposition of chlorohydrocarbons by using them
 IN Nakashima, Sadao; Tanisaki, Seiji; Nakamura, Shutaro
 PA Hakuto K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | JP 09328444 | A2 | 19971222 | JP 1996-145880 | 19960607 |
| PRAI | JP 1996-145880 | | 19960607 | | |
| OS | MARPAT 128:61255 | | | | |
| AB | The title inhibitors are useful in preparation, purification, and storage of chlorohydrocarbons. 1,1,1-Trichloroethane was refluxed with FeCl ₃ and 100 ppm 2,2,6,6-tetramethylpiperidine-1-oxyl for 1 h to form 0.2% vinylidene chloride (99% decomposition inhibition). | | | | |
| IT | 2226-96-2, HTEMPO
RL: MOA (Modifier or additive use); USES (Uses)
(1-oxylpiperidines for decomposition inhibition of chlorohydrocarbons) | | | | |
| RN | 2226-96-2 CAPLUS | | | | |
| CN | 1-Piperidinyloxy, 4-hydroxy-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME) | | | | |



=> file chemistry patent

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FILE 'USPATFULL' ENTERED AT 03:04:20 ON 22 MAR 2004

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FILE 'USPAT2' ENTERED AT 03:04:20 ON 22 MAR 2004

CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> S 127-18-4 or 71-55-6 or 79-00-5

26 FILES SEARCHED...

53 FILES SEARCHED...

61 FILES SEARCHED...

64 FILES SEARCHED...

L15 32173 127-18-4 OR 71-55-6 OR 79-00-5

=> S free radical stabilizer and 115

36 FILES SEARCHED...

60 FILES SEARCHED...

L16 3 FREE RADICAL STABILIZER AND L15

=> dup rem 116

DUPPLICATE IS NOT AVAILABLE IN 'AQUIRE, BIOCOMMERCE, CAOLD, FEDRIP, GENBANK, INVESTTEXT, KOSMET, RDISCLOSURE, STANDARDS, USAN, DGENE, DPCI, PCTGEN,

SYNTHLINE'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L16

L17 2 DUP REM L16 (1 DUPLICATE REMOVED)

=> d 1-2 bib ab

L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
AN 2004:60435 CAPLUS
DN 140:130113
TI Method of stabilizing trichloroethane during distillation using stable
free radicals
IN Gorton, Earl M.; Olinger, Ronald D.; Miller, Stephen D.
PA PPG Industries Ohio, Inc., USA
SO PCT Int. Appl., 17 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | WO 2004007409 | A1 | 20040122 | WO 2003-US20204 | 20030626 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR,
TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ,
MD, RU, TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG | | | | |
| | US 2004030203 | A1 | 20040212 | US 2003-436664 | 20030513 |
| PRAI | US 2002-396460P | P | 20020716 | | |
| | US 2003-436664 | A | 20030513 | | |
| OS | CASREACT 140:130113 | | | | |
| AB | A method of stabilizing trichloroethane during processing at temps. where
trichloroethane is susceptible to thermal decomposition comprises processing
trichloroethane in the presence of a stable free radical
stabilizer . The stabilizer containing a stable free radical group can
be a compound having at least one 2,2,6,6-tetra(lower alkyl)-1-
piperidinyloxy-yl group, such as 2,2,6,6-tetramethyl-4-hydroxy-1-
piperidinyloxy, 2,2,6,6-tetramethyl-4-oxo-1-piperidinyloxy, and
2,2,6,6-tetramethyl-4-[(methylsulfonyl)oxy]-1-piperidinyloxy. Thus, a
product from distillation of 1,1,1-trichloroethane in the presence of 2.6 ppm
of
4-hydroxy-TEMPO contained 61 ppm of vinylidene chloride (VDC), and a
product of distillation of 1,1,1-trichloroethane without such an additive
contained 212 ppm of VDC. | | | | |

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:162519 CAPLUS
TI Stabilization of trichloroethanes using a 2,2,6,6-tetra(lower
alkyl)-1-piperidinyloxy **free radical**
stabilizer
IN Gorton, Earl M.; Olinger, Ronald D.
PA USA
SO U.S. Pat. Appl. Publ., 6 pp., Cont.-in-part of U.S. Ser. No. 436,664.
CODEN: USXXCO
DT Patent
LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|------|----------|-----------------|----------|
| PI | US 2004039237 | A1 | 20040226 | US 2003-648972 | 20030827 |
| | US 2004030203 | A1 | 20040212 | US 2003-436664 | 20030513 |
| PRAI | US 2002-396460P | P | 20020716 | | |
| | US 2003-436664 | A2 | 20030513 | | |

AB Trichloroethanes are stabilized with a catalytic amount of a stable free radical stabilizer [e.g., a material having a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl free radical group such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy].

=> d his

(FILE 'HOME' ENTERED AT 02:40:06 ON 22 MAR 2004)

FILE 'REGISTRY' ENTERED AT 02:40:28 ON 22 MAR 2004

L1 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL) SEBACATE"
L2 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL) SEBACATE"/CN

FILE 'STNGUIDE' ENTERED AT 02:41:55 ON 22 MAR 2004

FILE 'STNGUIDE' ENTERED AT 02:46:42 ON 22 MAR 2004

FILE 'REGISTRY' ENTERED AT 02:53:17 ON 22 MAR 2004

L3 SCREEN 966
L4 SCREEN 2016 OR 2021
L5 STRUCTURE UPLOADED
L6 QUE L5 AND L3 NOT L4
L7 0 S L6
L8 0 S L6 FUL
L9 0 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L10 20223 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L11 3433 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?

FILE 'CAPLUS, USPATFULL' ENTERED AT 03:00:55 ON 22 MAR 2004

L12 7767 S L11
L13 3 S L12 AND (127-18-4 OR 71-55-6 OR 79-00-5)
L14 3 DUP REM L13 (0 DUPLICATES REMOVED)

FILE 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE, BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN, COMPENDEX, CONFSCI, COPPERLIT, CORROSION, DISSABS, ENCOMPLIT2, FEDRIP, GENBANK, INSPEC, INSPHYS, INVESTEXT, IPA, ...' ENTERED AT 03:04:20 ON 22 MAR 2004

L15 32173 S 127-18-4 OR 71-55-6 OR 79-00-5
L16 3 S FREE RADICAL STABILIZER AND L15
L17 2 DUP REM L16 (1 DUPLICATE REMOVED)

=> s l15 and l11

3 FILES SEARCHED...
8 FILES SEARCHED...
10 FILES SEARCHED...
14 FILES SEARCHED...
20 FILES SEARCHED...
25 FILES SEARCHED...
31 FILES SEARCHED...
36 FILES SEARCHED...
45 FILES SEARCHED...
52 FILES SEARCHED...
53 FILES SEARCHED...
59 FILES SEARCHED...
61 FILES SEARCHED...

62 FILES SEARCHED...
64 FILES SEARCHED...
L18 4 L15 AND L11

=> dup rem 118
DUPLICATE IS NOT AVAILABLE IN 'AQUIRE, BIOMERCE, CAOLD, FEDRIP, GENBANK,
INVESTTEXT, KOSMET, RDISCLOSURE, STANDARDS, USAN, DGENE, DPCI, PCTGEN,
SYNTHLINE'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L18

L19 3 DUP REM L18 (1 DUPLICATE REMOVED)

=> d 1-3 bib ab

L19 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
AN 2004:60435 CAPLUS
DN 140:130113
TI Method of stabilizing trichloroethane during distillation using stable
free radicals
IN Gorton, Earl M.; Olinger, Ronald D.; Miller, Stephen D.
PA PPG Industries Ohio, Inc., USA
SO PCT Int. Appl., 17 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--------|---|--|----------|-----------------|----------|
| | ----- | ----- | ----- | ----- | ----- |
| PI | WO 2004007409 | A1 | 20040122 | WO 2003-US20204 | 20030626 |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR,
TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ,
MD, RU, TJ, TM | | | |
| | RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC,
NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG | | | |
| | US 2004030203 | A1 | 20040212 | US 2003-436664 | 20030513 |
| PRAI | US 2002-396460P | P | 20020716 | | |
| | US 2003-436664 | A | 20030513 | | |
| OS | CASREACT | 140:130113 | | | |
| AB | A method of stabilizing trichloroethane during processing at temps. where
trichloroethane is susceptible to thermal decomposition comprises processing
trichloroethane in the presence of a stable free radical stabilizer. The
stabilizer containing a stable free radical group can be a compound having at
least one 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl group, such as
2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy, 2,2,6,6-tetramethyl-4-oxo-
1-piperidinyloxy, and 2,2,6,6-tetramethyl-4-[(methylsulfonyl)oxy]-1-
piperidinyloxy. Thus, a product from distillation of 1,1,1-trichloroethane in
the presence of 2.6 ppm of 4-hydroxy-TEMPO contained 61 ppm of vinylidene
chloride (VDC), and a product of distillation of 1,1,1-trichloroethane without
such an additive contained 212 ppm of VDC. | | | | |
| RE.CNT | 3 | THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT | | | |

L19 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:162519 CAPLUS
TI Stabilization of trichloroethanes using a 2,2,6,6-tetra(lower
alkyl)-1-piperidinyloxy free radical stabilizer
IN Gorton, Earl M.; Olinger, Ronald D.
PA USA

SO U.S. Pat. Appl. Publ., 6 pp., Cont.-in-part of U.S. Ser. No. 436,664.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|------|----------|-----------------|----------|
| PI | US 2004039237 | A1 | 20040226 | US 2003-648972 | 20030827 |
| | US 2004030203 | A1 | 20040212 | US 2003-436664 | 20030513 |
| PRAI | US 2002-396460P | P | 20020716 | | |
| | US 2003-436664 | A2 | 20030513 | | |

AB Trichloroethanes are stabilized with a catalytic amount of a stable free radical stabilizer [e.g., a material having a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl free radical group such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy].

L19 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:8627 CAPLUS

DN 128:61255

TI Decomposition inhibitors containing 1-oxylpiperidines and inhibition of decomposition of chlorohydrocarbons by using them

IN Nakashima, Sadao; Tanisaki, Seiji; Nakamura, Shutaro

PA Hakuto K. K., Japan

SO Jpn. Kokai Tokyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | JP 09328444 | A2 | 19971222 | JP 1996-145880 | 19960607 |
| PRAI | JP 1996-145880 | | 19960607 | | |
| OS | MARPAT 128:61255 | | | | |
| AB | The title inhibitors are useful in preparation, purification, and storage of chlorohydrocarbons. 1,1,1-Trichloroethane was refluxed with FeCl ₃ and 100 ppm 2,2,6,6-tetramethylpiperidine-1-oxyl for 1 h to form 0.2% vinylidene chloride (99% decomposition inhibition). | | | | |

=> d his

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FILE 'REGISTRY' ENTERED AT 02:40:28 ON 22 MAR 2004

L1 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL) SEBACATE"
L2 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL) SEBACATE"/CN

FILE 'STNGUIDE' ENTERED AT 02:41:55 ON 22 MAR 2004

FILE 'STNGUIDE' ENTERED AT 02:46:42 ON 22 MAR 2004

FILE 'REGISTRY' ENTERED AT 02:53:17 ON 22 MAR 2004

L3 SCREEN 966
L4 SCREEN 2016 OR 2021
L5 STRUCTURE UPLOADED
L6 QUE L5 AND L3 NOT L4
L7 0 S L6
L8 0 S L6 FUL
L9 0 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L10 20223 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L11 3433 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?

FILE 'CAPLUS, USPATFULL' ENTERED AT 03:00:55 ON 22 MAR 2004

L12 7767 S L11

L13 3 S L12 AND (127-18-4 OR 71-55-6 OR 79-00-5)
L14 3 DUP REM L13 (0 DUPLICATES REMOVED)

FILE 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE,
BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN,
COMPENDEX, CONFSCI, COPPERLIT, CORROSION, DISSABS, ENCOMPLIT2, FEDRIP,
GENBANK, INSPEC, INSPHYS, INVESTTEXT, IPA, ...' ENTERED AT 03:04:20 ON 22
MAR 2004

L15 32173 S 127-18-4 OR 71-55-6 OR 79-00-5
L16 3 S FREE RADICAL STABILIZER AND L15
L17 2 DUP REM L16 (1 DUPLICATE REMOVED)
L18 4 S L15 AND L11
L19 3 DUP REM L18 (1 DUPLICATE REMOVED)

=> s bis (20a) 2,2,6,6-tetramethyl (20a) piperidinyloxy?
6 FILES SEARCHED...
9 FILES SEARCHED...
17 FILES SEARCHED...
25 FILES SEARCHED...
34 FILES SEARCHED...
36 FILES SEARCHED...
48 FILES SEARCHED...
53 FILES SEARCHED...
59 FILES SEARCHED...
61 FILES SEARCHED...
62 FILES SEARCHED...
64 FILES SEARCHED...
69 FILES SEARCHED...
L20 236 BIS (20A) 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?

=> s l15 and l20
53 FILES SEARCHED...
L21 0 L15 AND L20

=> s 2,2,6,6-tetramethyl (20a) piperidin?
8 FILES SEARCHED...
17 FILES SEARCHED...
25 FILES SEARCHED...
34 FILES SEARCHED...
36 FILES SEARCHED...
48 FILES SEARCHED...
COMMAND INTERRUPTED
53 FILES SEARCHED...
59 FILES SEARCHED...
61 FILES SEARCHED...
62 FILES SEARCHED...
64 FILES SEARCHED...
69 FILES SEARCHED...
L22 13397 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
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Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> s l22 and l15
53 FILES SEARCHED...
L23 5 L22 AND L15

=> dup rem l23
DUPLICATE IS NOT AVAILABLE IN 'AQUIRE, BIOCOMMERCE, CAOLD, FEDRIP, GENBANK,
INVESTTEXT, KOSMET, RDISCLOSURE, STANDARDS, USAN, DGENE, DPCI, PCTGEN,
SYNTHLINE'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L23
L24 4 DUP REM L23 (1 DUPLICATE REMOVED)

=> d 1-4 bib ab

L24 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1
AN 2004:60435 CAPLUS
DN 140:130113
TI Method of stabilizing trichloroethane during distillation using stable free radicals

IN Gorton, Earl M.; Olinger, Ronald D.; Miller, Stephen D.

PA PPG Industries Ohio, Inc., USA

SO PCT Int. Appl., 17 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|-----------------|----------|
| PI | WO 2004007409 | A1 | 20040122 | WO 2003-US20204 | 20030626 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |

US 2004030203 A1 20040212 US 2003-436664 20030513

PRAI US 2002-396460P P 20020716

US 2003-436664 A 20030513

OS CASREACT 140:130113

AB A method of stabilizing trichloroethane during processing at temps. where trichloroethane is susceptible to thermal decomposition comprises processing trichloroethane in the presence of a stable free radical stabilizer. The stabilizer containing a stable free radical group can be a compound having at least one 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl group, such as 2,2,6,6-

tetramethyl-4-hydroxy-1-piperidinyloxy, 2,

2,6,6-tetramethyl-4-oxo-1-

piperidinyloxy, and 2,2,6,6-

-tetramethyl-4-[(methylsulfonyl)oxy]-1-piperidinyloxy.

Thus, a product from distillation of 1,1,1-trichloroethane in the presence of 2.6 ppm of 4-hydroxy-TEMPO contained 61 ppm of vinylidene chloride (VDC), and a product of distillation of 1,1,1-trichloroethane without such an additive contained 212 ppm of VDC.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:162519 CAPLUS

TI Stabilization of trichloroethanes using a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy free radical stabilizer

IN Gorton, Earl M.; Olinger, Ronald D.

PA USA

SO U.S. Pat. Appl. Publ., 6 pp., Cont.-in-part of U.S. Ser. No. 436,664.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|------|----------|-----------------|----------|
| PI | US 2004039237 | A1 | 20040226 | US 2003-648972 | 20030827 |

US 2004030203 A1 20040212 US 2003-436664 20030513
 PRAI US 2002-396460P P 20020716
 US 2003-436664 A2 20030513
 AB Trichloroethanes are stabilized with a catalytic amount of a stable free radical stabilizer [e.g., a material having a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl free radical group such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy].
 L24 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:685673 CAPLUS
 DN 135:210940
 TI Preparation method of 4-chloro-2,2,6,6-tetramethylpiperidine
 IN Tian, He; Chen, Kongchang; Guo, Lin; Wu, Chengyue; Cui, Minhua; Xu, Yaxin; Lu, Yiping; Shi, Zuliang
 PA Fine Chemical Plant, Shanghai Gaoqiao Petro-Chemical Co., Ltd., Peop. Rep. China
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 7 pp.
 CODEN: CNXXEV
 DT Patent
 LA Chinese
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | CN 1281850 | A | 20010131 | CN 2000-116878 | 20000630 |
| PRAI | CN 2000-116878 | | 20000630 | | |
| OS | CASREACT 135:210940; MARPAT 135:210940 | | | | |
| AB | The process comprises chlorinating 4-hydroxy-2,2,6,6-tetramethylpiperidine with SOCl_2 in organic solvent in the presence of quaternary ammonium chloride catalyst at 50-120° for 2-10 h, cooling to 30°, adding water under cooling, regulating with 4N NaOH solution to pH 10-11, extracting aqueous phase with Et ether, distilling, and sublimating in vacuum. The mole ratio of catalyst to 4-hydroxy-2,2,6,6-tetramethylpiperidine is 20-40%. The quaternary ammonium chloride contains one arylalkyl group, preferably benzyl. The solvent is benzene, toluene, xylene, acetonitrile, 1,1,2-trichloroethane, preferably toluene. | | | | |

L24 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1985:97034 CAPLUS
 DN 102:97034
 TI Coating of polypropylene moldings
 PA Mitsubishi Petrochemical Co., Ltd., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | JP 59179626 | A2 | 19841012 | JP 1983-56699 | 19830331 |
| | JP 03022895 | B4 | 19910327 | | |
| PRAI | JP 1983-56699 | | 19830331 | | |
| AB | Moldings containing 54-84 parts crystalline propylene polymer (I) (melt index 14-80), 15-32 parts ethylene-propylene copolymer rubber (II) [ML1+4 (100°) 15-90], and 1-14 parts high-d. polyethylene (III) [9002-88-4] (d. ≥ 0.94 , melt index 0.6-25) are cleaned with MeCCl_3 [71-55-6] vapor and then coated. The moldings have high impact resistance and rigidity and an excellent appearance and are useful for exterior automotive trim materials requiring coating ease and low-temperature impact resistance, especially for bumpers. Thus, I (melt index 14, containing 5% ethylene) 54, II [ML1+4 (100°) 20, containing 75% ethylene] 32, III (melt index 7, d. 0.96) 14, Al 4-tert-butylbenzoate (core-forming agent) | | | | |

0.2, bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate (UV absorber) 0.3, and polypropylene (containing 30% carbon black) 3.3 parts were mixed, extruded, and molded. The molding had excellent impact strength, flexural modulus, and mold shrinkage factor and no flow marks. The molding was cleaned with MeCCl₃ vapor, primed with R291, finish coated with R263, and baked at 110° for 30 min to give excellent film peel strength.

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=> S 2,2,5,5-tetramethyl (20a) pyrrolidin?
6 FILES SEARCHED...
9 FILES SEARCHED...
17 FILES SEARCHED...
25 FILES SEARCHED...
32 FILES SEARCHED...
36 FILES SEARCHED...
48 FILES SEARCHED...
53 FILES SEARCHED...
59 FILES SEARCHED...
61 FILES SEARCHED...
62 FILES SEARCHED...
64 FILES SEARCHED...
69 FILES SEARCHED...
L25      1181 2,2,5,5-TETRAMETHYL (20A) PYRROLIDIN?

=> S 115 and 125
53 FILES SEARCHED...
64 FILES SEARCHED...
L26      0 L15 AND L25

=> S (oxidation or decomposition) (20a) (inhibitor? or stabiliz?)
25 FILES SEARCHED...
48 FILES SEARCHED...
62 FILES SEARCHED...
L27      75130 (OXIDATION OR DECOMPOSITION) (20A) (INHIBITOR? OR STABILIZ?)

=> S 115 and 127
75% OF LIMIT FOR L#S REACHED
53 FILES SEARCHED...
L28      45 L15 AND L27

=> dup rem 128
DUPLICATE IS NOT AVAILABLE IN 'AQUIRE, BIOCOMMERCE, CAOLD, FEDRIP, GENBANK, INVESTTEXT, KOSMET, RDISCLOSURE, STANDARDS, USAN, DGENE, DPCI, PCTGEN, SYNTHLINE'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L28
L29      42 DUP REM L28 (3 DUPLICATES REMOVED)

=> d 1-42 ti

L29  ANSWER 1 OF 42 ENCOMPPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN
TI  Evidence for simultaneous abiotic-biotic oxidations in a
microbial-Fenton's system

L29  ANSWER 2 OF 42 ENCOMPPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN
TI  Chlorinated degreasing solvents: Physical-chemical properties affecting
aquifer contamination and remediation

L29  ANSWER 3 OF 42 ENCOMPPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN
TI  Chlorinated degreasing solvents: Physical-chemical properties affecting
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aquifer contamination and remediation

L29 ANSWER 4 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI Rapid landfill stabilization and improvements in leachate quality by leachate recirculation

L29 ANSWER 5 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Decomposition inhibitors** containing 1-oxylpiperidines and inhibition of **decomposition** of chlorohydrocarbons by using them

L29 ANSWER 6 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN
TI Monitoring reagent for paper degradation in power transformers - comprises primary amine, acetic/citric acid, salicylic acid and antioxidant, with calibrated colour standards medium

L29 ANSWER 7 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI Vapor-phase process and catalysts for producing hydrofluorocarbons and hydrochlorofluorocarbons from perchloroethylene in the presence of a phenolic **oxidation inhibitor**

L29 ANSWER 8 OF 42 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN
TI [A review of] hazardous waste treatment technologies

L29 ANSWER 9 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI Transformation of tetrachloroethene to ethene in mixed methanogenic cultures: effect of electron donor, biomass levels, and inhibitors

L29 ANSWER 10 OF 42 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved.
(2004) on STN DUPLICATE 1
TI Cometabolic degradation of chlorinated alkenes by alkene monooxygenase in a propylene-grown Xanthobacter strain.

L29 ANSWER 11 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI Additive compositions for **stabilization** against perchloroethylene **decomposition**

L29 ANSWER 12 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN
TI Detergent for cleaning of electric machine - contains specified petroleum fraction, per chloroethylene, methyl-ditert. butyl phenol and difluoro-tetrachloroethane

L29 ANSWER 13 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI Reactivity of chlorine-containing peroxy radicals toward aromatic compounds

L29 ANSWER 14 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN
TI 4,4'(PRIME)-Dibromophenyl preparation in halogenated hydrocarbon solvent - in presence of catalyst selected from antimony, titanium, tin and zinc or their cpds

L29 ANSWER 15 OF 42 BIOTECHNO COPYRIGHT 2004 Elsevier Science B.V. on STN
TI Biodegradation of chlorinated ethenes by a methane-utilizing mixed culture

L29 ANSWER 16 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN
TI STABILISATION OF PERCHLOROETHYLENE DIELECTRIC FLUIDS - BY ADDING

DICYANDIAMIDE OR A FEW RELATED CPDS

L29 ANSWER 17 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN

TI ELECTRICALLY STABLE COMPSNS. FOR TRANSFORMERS OR CAPACITORS - COMPRISSES MIXT. OF PERCHLOROETHYLENE, HYDROCARBON INSULATING OIL, POLYHYDRIC PHENOL AND ANTIOXIDANT

L29 ANSWER 18 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN

TI STABILISING CHLORO-HYDROCARBON BY CONTACT WITH ZEOLITE - AND USE OF STABILISED TETRACHLORO-ETHENE AS DIELECTRIC FLUID IN TRANSFORMERS

L29 ANSWER 19 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN

TI PERCHLOROETHYLENE BASED DIELECTRIC FLUID, ESP. FOR TRANSFORMERS - CONTG. N-METHYL-PYRROLE AND PARA-TERT. AMYL PHENOL AS ANTIOXIDANTS

L29 ANSWER 20 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN

TI HIGH PURITY TETRACHLOROETHYLENE DIELECTRIC TRANSFORMER FLUID - IS USED ALONE OR WITH OXIDN. INHIBITOR AND OR DILUENT

L29 ANSWER 21 OF 42 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN

TI SOME CHEMICAL PROPERTIES OF TETRACHLOROETHYLENE, TRICHLOROETHYLENE, AND 1,1,1-TRICHLOROETHANE (OF SIGNIFICANCE TO CORROSION)...AN OVERVIEW FUR DAS KORROSIVE VERHALTEN WICHTIGE CHEMISCHE EIGENSCHAFTEN DES PERCHLORETHYLENS, TRICHLORETHYLENS UND 1,1,1-TRICHLORETHANS...EINE UBERSICHT.

L29 ANSWER 22 OF 42 AGRICOLA Compiled and distributed by the National Agricultural Library of the Department of Agriculture of the United States of America. It contains copyrighted materials. All rights reserved. (2004) on STN DUPLICATE 2

TI Destruction and discoloration of silk due to **decomposition** products of perchloroethylene and **stabilizers**.

L29 ANSWER 23 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN

TI STORAGE STABILIZED METHYLCHLOROFORM FORMULATIONS; CONTAINING 1,3-DIOXOLANES OR 1,4-DIOXANE; ALIPHATIC ALDEHYDE HYDRAZONE

L29 ANSWER 24 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN

TI STABILIZED METHYLCHLOROFORM

L29 ANSWER 25 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN

TI STABILIZATION OF 1,1,1-TRICHLOROETHANE; STYRENE OXIDE, PHENYL GLYCIDYL ETHER

L29 ANSWER 26 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN

TI HIGH REACTIVITY PHOSPHORUS PENTASULPHIDE PREPN. - BY COOLING AND QUENCHING THE MOLTEN SULPHIDE IN A LIQUID

L29 ANSWER 27 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN

TI STABLE SOLVENT COMPOSITION

L29 ANSWER 28 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN

TI POLYOLEFIN COMPSN - CONTG ORGANOALUMINIUM CPD STABILISERS

L29 ANSWER 29 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN

TI SULFUR EXTRACTION BY SEQUENTIAL CONTACT WITH VAPOR AND WITH LIQUID PERCHLOROETHYLENE

L29 ANSWER 30 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3
TI Methylchloroform containing nitromethane and a lower alkanol as
stabilizers against its **decomposition** in the presence of
metals

L29 ANSWER 31 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
TI PROCESS FOR **STABILIZING AGAINST DECOMPOSITION**
HALOGENATED HYDROCARBONS, AND IN PARTICULAR CHLORINATED ALIPHATIC
HYDROCARBONS

L29 ANSWER 32 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
TI PROCESS FOR STABILIZING HALOGENATED HYDROCARBONS

L29 ANSWER 33 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
TI **STABILIZATION**

L29 ANSWER 34 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
TI NON-CORROSIVE DRY-CLEANING COMPOSITION

L29 ANSWER 35 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Decomposition inhibitor** for trichloro- and
perchloroethylene

L29 ANSWER 36 OF 42 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING
INFORMATION INC. on STN
TI GEIGY BROADENS ITS RANGE OF ANTIOXIDANTS

L29 ANSWER 37 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Stabilization** of methylchloroform against **decomposition**
by metals

L29 ANSWER 38 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Stabilization** of methylchloroform against **decomposition**
by metals

L29 ANSWER 39 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI Stabilization of certain hydrocarbon chlorides

L29 ANSWER 40 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Stabilizer** for prevention of halogenated hydrocarbon
decomposition

L29 ANSWER 41 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
TI Stabilization of chlorinated hydrocarbons with 2,5-dimethyl-1,5-hexadiene-
3-yne

L29 ANSWER 42 OF 42 NIOSHTIC on STN
TI A Low Dose Range, Chemical, Radiation Detector For Personnel Monitoring

=> d 5,7,11,16,23,24,25,27,30,31,32,33,35,37,38,39,41 bib ab

L29 ANSWER 5 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:8627 CAPLUS
DN 128:61255
TI **Decomposition inhibitors** containing 1-oxylpiperidines
and inhibition of **decomposition** of chlorohydrocarbons by using
them
IN Nakashima, Sadao; Tanisaki, Seiji; Nakamura, Shutaro
PA Hakuto K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent

LA Japanese

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------|------|----------|-----------------|----------|
| PI JP 09328444 | A2 | 19971222 | JP 1996-145880 | 19960607 |
| PRAI JP 1996-145880 | | 19960607 | | |

OS MARPAT 128:61255

AB The title inhibitors are useful in preparation, purification, and storage of chlorohydrocarbons. 1,1,1-Trichloroethane was refluxed with FeCl₃ and 100 ppm 2,2,6,6-tetramethylpiperidine-1-oxyl for 1 h to form 0.2% vinylidene chloride (99% decomposition inhibition).

L29 ANSWER 7 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1996:701936 CAPLUS

DN 126:7674

TI Vapor-phase process and catalysts for producing hydrofluorocarbons and hydrochlorofluorocarbons from perchloroethylene in the presence of a phenolic **oxidation inhibitor**

IN Tung, Hsueh S.

PA AlliedSignal Inc., USA

SO U.S., 5 pp., Continuation of U.S. Ser. No. 248, 127, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------|------|----------|-----------------|----------|
| PI US 5569794 | A | 19961029 | US 1995-521258 | 19950830 |
| PRAI US 1994-248127 | | 19940524 | | |

AB Hydrofluorocarbons and hydrochlorofluorocarbons are prepared by reacting anhydrous HF in the vapor phase and in the presence of a fluorination catalyst (e.g., Cr, Al, Co, etc.) with an admixt. of perchloroethylene and a 1-10 ppm phenolic inhibitor (e.g., hydroquinone, hydroquinone monomethyl ether) which serves to inhibit the formation of an oxidation product in the perchloroethylene while not substantially degrading the fluorination catalyst during the fluorination process. In another claim, substantially all of the oxidation inhibitor is removed from the perchloroethylene in-line prior to reacting the HF with the perchloroethylene.

L29 ANSWER 11 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1990:574480 CAPLUS

DN 113:174480

TI Additive compositions for **stabilization** against perchloroethylene **decomposition**

IN Roark, Roger W.; Cairns, Glenn R.; Rowe, Edward A., Jr.

PA Occidental Chemical Corp., USA

SO U.S., 4 pp. Cont. of U.S. Ser. No. 945,167, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------|------|----------|-----------------|----------|
| PI US 4942267 | A | 19900717 | US 1988-225580 | 19880728 |
| PRAI US 1981-320614 | | 19811112 | | |
| US 1983-529987 | | 19830909 | | |
| US 1986-945167 | | 19861222 | | |

AB Perchloroethylene, useful in vapor-phase decreasing operations, is stabilized against decomposition by an additive composition containing (A) an amine

component selected from N,N'-dimethylpiperazine, N,N'-diethylpiperazine, N-methylpiperazine, N-ethylpiperazine, and their mixts., (B) an alc. selected from BuOH, 1-pentanol, cyclohexanol, 2-methoxyethanol, 2,3-butanediol, and their mixts., and (C) an olefin selected from

1-octene, 1-decene, 1,3,5-cycloheptatrien, dicyclopentadiene, and their mixts.

L29 ANSWER 16 OF 42 ENCOMPPAT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN
AN 84:5424 ENCOMPPAT;ENCOMPPAT2
DN 8420901
TI STABILISATION OF PERCHLOROETHYLENE DIELECTRIC FLUIDS - BY ADDING DICYANDIAMIDE OR A FEW RELATED CPDS
PA WESTINGHOUSE ELEC CORP
PI US 4424147 840103
PRAI US 1982-413592 820831
OS DERWENT 84023750

L29 ANSWER 23 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
AN 01077601 IFIPAT;IFIUDB;IFICDB
TI STORAGE STABILIZED METHYLCHLOROFORM FORMULATIONS; CONTAINING 1,3-DIOXOLANES OR 1,4-DIOXANE; ALIPHATIC ALDEHYDE HYDRAZONE
INF Manner, James A, Akron, OH
IN MANNER JAMES A
PAF PPG Industries, Inc, Pittsburgh, PA
PA PPG INDUSTRIES INC (67436)
EXNAM Horwitz, D
AG Benjamin, Roger S
PI US 4026956 A 19770531 (CITED IN 004 LATER PATENTS)
AI US 1975-585989 19750611
XPD 31 May 1994
RLI US 1969-822706 19690507 CONTINUATION-IN-PART 3532761
US 1970-16217 19700304 CONTINUATION-IN-PART ABANDONED
US 1972-288821 19720913 CONTINUATION-IN-PART ABANDONED
FI US 4026956 19770531
US 3532761
DT Utility
FS CHEMICAL
GRANTED
OS CA 87:38841
CLMN 23
AB Methylchloroform formulations containing 1,3-dioxolanes and/or 1,4-dioxane are storage-stabilized by the addition of aliphatic aldehyde hydrazone.

L29 ANSWER 24 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
AN 01069414 IFIPAT;IFIUDB;IFICDB
TI STABILIZED METHYLCHLOROFORM
INF Archer, Wesley L, Midland, MI
Gerard, Raymond R, Bay City, MI
Simpson, Elbert L, Auburn, MI
IN ARCHER WESLEY L; GERARD RAYMOND R; SIMPSON ELBERT L
PAF The Dow Chemical Company, Midland, MI
PA DOW CHEMICAL CO THE (24712)
EXNAM Horwitz, D
AG Baker, Glwynn R
PI US 4018837 A 19770419 (CITED IN 004 LATER PATENTS)
AI US 1974-527003 19741125
XPD 19 Apr 1994
RLI US 1972-281242 19720816 CONTINUATION-IN-PART ABANDONED
US 1972-281243 19720816 CONTINUATION-IN-PART ABANDONED
US 1972-281244 19720816 CONTINUATION-IN-PART ABANDONED
US 1972-281245 19720816 CONTINUATION-IN-PART ABANDONED
FI US 4018837 19770419
DT Utility
FS CHEMICAL
GRANTED
OS CA 87:22356

CLMN 11
GI 6 Drawing Sheet(s), 9 Figure(s).
AB A stable 1,1,1-trichloroethane composition containing 1,1,1trichloroethane and, as the essential acid acceptor, 0.25 to 1 weight percent of a C4-8 monoepoxide, epichlorohydrin or a mixture of such epoxides and, as the essential **stabilizer** against metal-induced **decomposition**, 3.5 to 4.5 weight percent of a three-component system selected from the group consisting of: DIOXANE, TRIOXANE, DIOXOLANE, T. BUTYL ALCOHOL, AND A C1-3 nitroalkane or mixtures of nitroalkanes, in a proportion one to the other within the shaded areas of FIGS. 1-9, provided that when a nitroalkane is not present as a member of the three-component mixture, it is added in an amount to provide from about 0.25 to 1 percent by weight of said nitromethane. The composition set forth balances inhibitor content to obtain protection in both the liquid and vapor without excessive losses or concentrations disproportionate with solvent losses through vapor escape or liquid dragout. Thus the above compositions are stable in the presence of the metals aluminum, zinc, iron, copper and their alloys, both in the liquid and vapor state of the compositions. The compositions do not partition in a manner to concentrate the low boiling stabilizers in the vapor or the high boiling stabilizers in the liquid even after refluxing over extended periods of time accompanied by frequent additions of make-up volumes of stabilized 1,1,1-trichloroethane to compensate for the solvent losses.

L29 ANSWER 25 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
AN 01066775 IFIPAT;IFIUDB;IFICDB
TI STABILIZATION OF 1,1,1-TRICHLOROETHANE; STYRENE OXIDE, PHENYL GLYCIDYL ETHER
INF Miyano, Isao, Shin Nanyo, JP
Otsuki, Susumu, Shin Nanyo, JP
Uchida, Kanichi, Shin Nanyo, JP
IN MIYANOHARA ISAO; OTSUKI SUSUMU; UCHIDA KANICHI
PAF Toyo Soda Manufacturing Co, Ltd, Tokyo, JP
PA TOYO SODA MANUFACTURING CO LTD JP (85312)
EXNAM Horwitz, D
AG Oblon, Fisher, Spivak, McClelland & Maier
PI US 4016215 A 19770405 (CITED IN 001 LATER PATENTS)
AI US 1975-551646 19750221
XPD 5 Apr 1994
RLI US 1973-363495 19730524 CONTINUATION-IN-PART ABANDONED
US 1971-169112 19710804 DIVISION ABANDONED
PRAI JP 1970-72813 19700821
FI US 4016215 19770405
DT Utility
FS CHEMICAL
GRANTED
OS CA 78:147333
CLMN 7
AB 1,1,1-TRICHLOROETHANE IS **STABILIZED AGAINST DECOMPOSITION INITIATED BY CONTACT WITH IRON BY THE USE OF A COMBINATION OF STYRENE OXIDE, PHENYL GLYCIDYL ETHER OR MIXTURES THEREOF WITH A SECOND CONVENTIONAL STABILIZER OF AN ALCOHOL, A NITRO COMPOUND OR A CYCLIC ETHER.**

L29 ANSWER 27 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
AN 00816302 IFIPAT;IFIUDB;IFICDB
TI STABLE SOLVENT COMPOSITION
IN GENDA Y; MASUYAMA K; SAWABE S; TAKEBAYASHI M; YAMAMOTO T
PA NIPPON SODA CO LTD JP (59968)
PI US 3767585 A 19731023 (CITED IN 006 LATER PATENTS)
AI US 1971-188527 19711012
XPD 23 Oct 1990
FI US 3767585 19731023
DT Utility

FS CHEMICAL
GRANTED
OS CA 80:84990
AB THIS INVENTION RELATES TO A NEW **STABILIZING** MIXTURE OF ADDITIVES FOR CHLORINATED ALIPHATIC HYDROCARBONS TO GUARD AGAINST **DECOMPOSITION**, AND MORE PARTICULARLY, TO A NEW STABLE SOLVENT COMPOSITION COMPOSED OF CHLORINATED, ALIPHATIC HYDROCARBONS CONTAINING MIXTURES OF **STABILIZING** ADDITIVES.

L29 ANSWER 30 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3

AN 1971:124776 CAPLUS

DN 74:124776

TI Methylchloroform containing nitromethane and a lower alkanol as **stabilizers** against its **decomposition** in the presence of metals

IN Cormany, Charles L.; Dial, William R.; Pray, Blaine O.

PA PPG Industries, Inc.

SO U.S., 2 pp. Continuation-in-part of U.S. 3,499,047

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | US 3549715 | A | 19701222 | US 1959-812791 | 19590513 |
| PRAI | US 1959-812791 | | 19590513 | | |
| AB | Continuation-in-part of U.S. 3,499,047 (See Brit. 912,118, CA 58: 13532c). CCl ₃ Me (I) is protected against decomposition due to its corrosive action (particularly on light metals and their alloys) by incorporation of an appropriate concentration of nitroalkane, notably about 2-5 weight % MeNO ₂ . | | | | |

I

stabilized with MeNO₂ may include other components, such as alcs. and epoxides. Thus, stabilized I may contain 0.05-10.0% tert-C₅H₁₁OH and 0.5-10.0% MeNO₂ based on the weight of I.

L29 ANSWER 31 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN

AN 00595072 IFIPAT;IFIUDB;IFICDB

TI PROCESS FOR **STABILIZING** AGAINST **DECOMPOSITION** HALOGENATED HYDROCARBONS, AND IN PARTICULAR CHLORINATED ALIPHATIC HYDROCARBONS

IN PATRON GERMANO (IT)

PA MONTEDISON SPA IT (56948)

PI US 3546304 A 19701208 (CITED IN 004 LATER PATENTS)

AI US 1968-722808 19680419

XPD 8 Dec 1987

PRAI IT 1967-15168 19670420

FI US 3546304 19701208

FR 1580912

DE 1768227

DT Utility

FS CHEMICAL

GRANTED

OS CA 73:34762

L29 ANSWER 32 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN

AN 00454844 IFIPAT;IFIUDB;IFICDB

TI PROCESS FOR STABILIZING HALOGENATED HYDROCARBONS

IN PATRON GERMANO (IT)

PA MONTEDISON SPA IT (56948)

PI US 3406213 A 19681015 (CITED IN 002 LATER PATENTS)

AI US 1966-532079 19660307

XPD 15 Oct 1985

PRAI IT 1965-5490 19650312

FI US 3406213 19681015

DT Utility
FS CHEMICAL
GRANTED
OS CA 66:37412

L29 ANSWER 33 OF 42 IFIPAT COPYRIGHT 2004 IFI on STN
AN 00436823 IFIPAT;IFIUDB;IFICDB
TI STABILIZATION
IN BLANKENSHIP MILTON J; MCCARTHY RALPH
PA DOW CHEMICAL CO THE (24712)
PI US 3384673 A 19680521 (CITED IN 001 LATER PATENTS)
AI US 1966-532119 19660307
XPD 21 May 1985
FI US 3384673 19680521
DT Utility
FS CHEMICAL
GRANTED
OS CA 69:43411

L29 ANSWER 35 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1967:37412 CAPLUS
DN 66:37412

TI **Decomposition inhibitor** for trichloro- and perchloroethylene
PA Societa Edison S.p.A.-Settore Chimico
SO Neth. Appl., 7 pp.
CODEN: NAXXAN

DT Patent
LA Dutch

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|------|
| PI | NL 6602762 | | 19660903 | | |
| | DE 1266298 | | | DE | |
| | FR 1470810 | | | FR | |
| | IT 750996 | | | IT | |
| | US 3406213 | | 19680000 | US | |

PRAI IT 19650312

AB Addition of 0.05-0.005% by weight of furfural dimethylhydrazone prevents decomposition of trichloro- and perchloroethylene when the latter is exposed to metal, heat, O₂, or moisture. Even better is a mixture of the hydrazone and 0.1-0.3% (by weight) butylene oxide, propylene oxide, 0.01-0.05% thymol, eugenol, p-tert-amyl- or butylphenol and 0.001-0.05% hydroquinone monomethyl ether. For example, trichloroethylene was tested according to the accelerated oxidation expts. USA Army-Navy Aeronautical Specification MIL-T 7003 and the Federal Specification OT-634/a standard. The tests performed in the absence of inhibitor and in the presence of butylene oxide 0.2, propylene oxide 0.55, and thymol 0.002% by weight resulted in a pH decrease from 7 to 1 together with extensive corrosion of the steel coupon. In both cases the mixture was saturated with phosgene. Adding furfural

dimethylhydrazone (0.025%) alone or mixed with the propylene oxide, butylene oxide, and thymol in the tests showed no corrosion of the test coupon or change in pH.

L29 ANSWER 37 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1965:42357 CAPLUS

DN 62:42357

OREF 62:7447d

TI **Stabilization** of methylchloroform against **decomposition** by metals

PA Imperial Chemical Industries Ltd.

SO 8 pp.

DT Patent

LA Unavailable

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|------|
| PI | FR 1372973
BE 639277
NL 300025 | | 19640918 | FR
BE
NL | |
| PRAI | GB | | 19621102 | | |
| AB | MeCCl ₃ as a degreasing solvent is stabilized against decomposition caused by metals by the incorporation of 3-5% 1,3-dioxane or 2-methyl-1,3-dioxane and 0.5-2% MeNO ₂ based on the weight of MeCCl ₃ . | | | | |

L29 ANSWER 38 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1965:42356 CAPLUS

DN 62:42356

OREF 62:7447c-d

TI Stabilization of methylchloroform against decomposition by metals

PA Imperial Chemical Industries Ltd.

SO 9 pp.

DT Patent

LA Unavailable

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---|------|----------|----------------------------|------|
| PI | FR 1372972
BE 639276
BE 639279
NL 300016
NL 6411992 | | 19640918 | FR
BE
BE
NL
NL | |

PRAI GB 19621102

AB MeCCl₃ as a degreasing solvent is stabilized against decomposition caused by metals by the incorporation of 2-4% 1,3-dioxolane or 2-methyl-1,3-dioxolane and 0.2-2% MeNO₂ based on the weight of MeCCl₃.

L29 ANSWER 39 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1964:424679 CAPLUS

DN 61:24679

OREF 61:4158b-c

TI Stabilization of certain hydrocarbon chlorides

AU Durchleiter, L.; Ilver, K.; Madsen, Aa.

CS Pharmacopeial Comm., Copenhagen

SO Dansk Tidsskrift for Farmaci (1964), 38(4), 77-88

CODEN: DTFAAN; ISSN: 0011-6513

DT Journal

LA Unavailable

AB Several unstable hydrocarbon chlorides have been adopted in Pharmacopeia Nordica, and a study of stabilizers and their assays has been made. CHCl₃ may be stabilized with 1% EtOH, assayed by oxidation with K₂Cr₂O₇ and HNO₃, and back-titrated with Na₂S₂O₃. Cl₂C:CCl₂ may have EtOH or thymol added, making no specific test possible, except exposure to light and assay for COCl₂-formation. Cl₂C:CClH is required to contain Waxoline blue AS, a stabilizer in itself, which upon oxidation changes to red. CCl₄ needs no stabilizer.

L29 ANSWER 41 OF 42 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1958:107169 CAPLUS

DN 52:107169

OREF 52:18965a-c

TI Stabilization of chlorinated hydrocarbons with 2,5-dimethyl-1,5-hexadiene-3-yne

IN Burch, Robert J.; Leeds, Morton W.

PA Air Reduction Co., Inc.

DT Patent

LA Unavailable

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------------|-------|-------|-----------------|-------|
| | ----- | ----- | ----- | ----- | ----- |

PI US 2841625 19580701 US

AB Trichloroethylene is stabilized against degradation caused by metals, oxidation, hydrolysis, and pyrolysis by addition of 0.1 weight % of the title compound (I). Stability is further improved by a synergistic action when 2 parts 3-methyl-1-pentyn-3-ol or 0.1 part 2,6-di-tert-butyl-p-cresol is added to 1 part I and the mixture used as above. Similar results are obtained in stabilization of perchloroethylene.

=> d his

(FILE 'HOME' ENTERED AT 02:40:06 ON 22 MAR 2004)

FILE 'REGISTRY' ENTERED AT 02:40:28 ON 22 MAR 2004

L1 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERIDINYLOXY-4-YL)SEBACATE"
L2 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERIDINYLOXY-4-YL)SEBACATE"/CN

FILE 'STNGUIDE' ENTERED AT 02:41:55 ON 22 MAR 2004

FILE 'STNGUIDE' ENTERED AT 02:46:42 ON 22 MAR 2004

FILE 'REGISTRY' ENTERED AT 02:53:17 ON 22 MAR 2004

L3 SCREEN 966
L4 SCREEN 2016 OR 2021
L5 STRUCTURE UPLOADED
L6 QUE L5 AND L3 NOT L4
L7 0 S L6
L8 0 S L6 FUL
L9 0 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L10 20223 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L11 3433 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?

FILE 'CAPLUS, USPATFULL' ENTERED AT 03:00:55 ON 22 MAR 2004

L12 7767 S L11
L13 3 S L12 AND (127-18-4 OR 71-55-6 OR 79-00-5)
L14 3 DUP REM L13 (0 DUPLICATES REMOVED)

FILE 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE, BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN, COMPENDEX, CONFSCI, COPPERLIT, CORROSION, DISSABS, ENCOMPLIT2, FEDRIP, GENBANK, INSPEC, INSPHYS, INVESTTEXT, IPA, ...' ENTERED AT 03:04:20 ON 22 MAR 2004

L15 32173 S 127-18-4 OR 71-55-6 OR 79-00-5
L16 3 S FREE RADICAL STABILIZER AND L15
L17 2 DUP REM L16 (1 DUPLICATE REMOVED)
L18 4 S L15 AND L11
L19 3 DUP REM L18 (1 DUPLICATE REMOVED)
L20 236 S BIS (20A) 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?
L21 0 S L15 AND L20
L22 13397 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L23 5 S L22 AND L15
L24 4 DUP REM L23 (1 DUPLICATE REMOVED)
L25 1181 S 2,2,5,5-TETRAMETHYL (20A) PYRROLIDIN?
L26 0 S L15 AND L25
L27 75130 S (OXIDATION OR DECOMPOSITION) (20A) (INHIBITOR? OR STABILIZ?)
L28 45 S L15 AND L27
L29 42 DUP REM L28 (3 DUPLICATES REMOVED)

=> s l15 (25a) (inhibitor? or stabiliz?) (25a) silica

31 FILES SEARCHED...
50 FILES SEARCHED...
L30 1 L15 (25A) (INHIBITOR? OR STABILIZ?) (25A) SILICA

=> d bib ab

L30 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:888857 CAPLUS
DN 140:64467
TI Investigation of the Inhibitory Effect of Silica on the Degradation of 1,1,1-Trichloroethane by Granular Iron
AU Kohn, Tamar; Kane, Sheryl R.; Fairbrother, D. Howard; Roberts, A. Lynn
CS Department of Geography and Environmental Engineering, Johns Hopkins University, Baltimore, MD, 21218-2686, USA
SO Environmental Science and Technology (2003), 37(24), 5806-5812
CODEN: ESTHAG; ISSN: 0013-936X
PB American Chemical Society
DT Journal
LA English
AB Although iron-based permeable reactive barriers are gaining importance for treating groundwater contaminants, little is currently known about the effect of cosolutes on barrier longevity. Because of their corrosion inhibiting properties, dissolved silica species are of particular concern. This research investigates the effect of silica on the reduction of 1,1,1-trichloroethane by granular iron as a function of added silica concentration, pH, and duration of iron exposure to dissolved silica. Batch studies reveal that, at pH 8.5 and above, added silica concns. as low as 0.17 mM cause a 30% reduction in the reactivity of iron. At higher silica concns., reactivity decreases by 65-75%. The inhibitory effect is greater at higher pH: 0.83 mM silica has no apparent adverse effect at pH 7.5, but leads to a 46% decrease in reaction rate at pH 8 and 90% at pH 9. This corresponds to observed trends in silica adsorption onto iron, which is low at pH 7.3 but increases at higher pH. Extending the duration of iron exposure to silica solns. also leads to a more pronounced inhibitory effect. This is in good agreement with the increase in silica coverage on the iron surface as revealed by XPS.

RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s l15 and (inhibitor? or stabiliz?) and silica
36 FILES SEARCHED...
62 FILES SEARCHED...
L31 37 L15 AND (INHIBITOR? OR STABILIZ?) AND SILICA

=> dup rem l31
DUPLICATE IS NOT AVAILABLE IN 'AQUIRE, BIOCOMMERCE, CAOLD, FEDRIP, GENBANK, INVESTTEXT, KOSMET, RDISCLOSURE, STANDARDS, USAN, DGENE, DPCI, PCTGEN, SYNTHLINE'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L31
L32 36 DUP REM L31 (1 DUPLICATE REMOVED)

=> d 1-36 ti

L32 ANSWER 1 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI **Stabilization of trichloroethanes using a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy free radical stabilizer**
L32 ANSWER 2 OF 36 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN CYCLOOXYGENASE-2 SELECTIVE INHIBITORS, COMPOSITIONS AND METHODS OF USE
TIFR INHIBITEURS SELECTIFS DE LA CYCLOOXYGENASE 2, COMPOSITIONS ASSOCIEES ET METHODES D'UTILISATION

L32 ANSWER 3 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Method to prepare porphyrin nanoparticles and its application as oxidation catalyst

L32 ANSWER 4 OF 36 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN HETERO-TRICYCLIC COMPOUNDS HAVING SUBSTITUTED AMINO GROUPS.

L32 ANSWER 5 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Investigation of the **Inhibitory** Effect of **Silica** on the Degradation of 1,1,1-Trichloroethane by Granular Iron

L32 ANSWER 6 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Bronchial occlusion method and apparatus

L32 ANSWER 7 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Cellulose acylate solutions with reduced chlorine content, their preparation, and films prepared therefrom

L32 ANSWER 8 OF 36 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN NPYY5 ANTAGONISTS.

L32 ANSWER 9 OF 36 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN Neuraminic acid derivatives, their preparation and their medical use.
TIEN Neuraminic acid derivatives, their preparation and their medical use.

L32 ANSWER 10 OF 36 EUROPATFULL COPYRIGHT 2004 WILA on STN
TIEN PERIPHERAL VASODILATING AGENT CONTAINING N-ACYLATED 4-AMINO PIPERIDINE DERIVATIVES AS ACTIVE INGREDIENTS.

L32 ANSWER 11 OF 36 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN PHARMACEUTICAL COMPOSITION FOR CONTROLLED RELEASE OF AN ACTIVE INGREDIENT
TIFR COMPOSITION PHARMACEUTIQUE A LIBERATION CONTROLEE DE PRINCIPE ACTIF

L32 ANSWER 12 OF 36 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN ANTIFUNGAL AZOLE DERIVATIVES HAVING A FLUORINATED VINYL GROUP AND PROCESS FOR PREPARING SAME
TIFR DERIVES D'AZOLE ANTIFONGIQUES COMPRENANT UN GROUPE VINYLE FLUORE ET PROCEDE DE PREPARATION ASSOCIE

L32 ANSWER 13 OF 36 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN LIGANDS FOR METALS AND METAL-CATALYZED PROCESSES
TIFR LIGANDS POUR METAUX ET PROCESSUS PERFECTIONNES CATALYSES PAR DES METAUX BASES SUR CEUX-CI

L32 ANSWER 14 OF 36 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN BIOMIMETIC COMBINATORIAL SYNTHESIS
TIFR SYNTHESE COMBINATOIRE BIOMIMETIQUE

L32 ANSWER 15 OF 36 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN GLUCOCORTICOID-SELECTIVE ANTI-INFLAMMATORY AGENTS
TIFR AGENTS ANTI-INFLAMMATOIRES PRESENTANT UNE SELECTIVITE POUR LES GLUCOCORTICOIDES

L32 ANSWER 16 OF 36 PCTFULL COPYRIGHT 2004 Univentio on STN
TIEN 1,3-DISUBSTITUTED UREAS AS ACAT **INHIBITORS**, AND METHOD OF PREPARING THEREOF
TIFR UREES 1,3-DISUBSTIUEES UTILISEES COMME INHIBITEURS D'ACAT, ET LEUR PROCEDE DE PREPARATION

L32 ANSWER 17 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Unusual solvatochromism of the 4,4'-bis(dimethylamino)benzophenone (Michler's ketone)-tetracyanoethene electron donor-acceptor complex

L32 ANSWER 18 OF 36 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN
TI Metal loaded zeolitic media for the storage and oxidative destruction of chlorinated VOCs

L32 ANSWER 19 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Catalytic hydrodechlorination of CCl₄ over **silica-supported** PdCl₂-containing molten salt catalysis: the promotional effects of CoCl₂ and CuCl₂

L32 ANSWER 20 OF 36 ANABSTR COPYRIGHT 2004 RSC on STN DUPLICATE 1
TI Simultaneous determination of 1,1,1-trichloroethane and its **stabilizer** in waterproofing aerosol products by dry-space method.

L32 ANSWER 21 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Volatile emissions from **stabilization/solidification** of hazardous waste

L32 ANSWER 22 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Low temperature formation and minimization of chlorinated hydrocarbons

L32 ANSWER 23 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Transition metal-based catalyst system containing an autoacceleration **inhibitor**

L32 ANSWER 24 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Manufacture and uses of cellular epoxy resin adhesives

L32 ANSWER 25 OF 36 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN
TI Japanese gov(erntmen)t (is) in a 10-year CO₂ recycling R&D project

L32 ANSWER 26 OF 36 ENCOMPLIT2 COPYRIGHT 2004 ELSEVIER ENGINEERING INFORMATION INC. on STN
TI (A review of sampling and analysis methods for) industrial hygiene

L32 ANSWER 27 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Microencapsulated electrophotographic toner for cold pressure fixation

L32 ANSWER 28 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Caulking composition

L32 ANSWER 29 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Dehydration of organic liquids

L32 ANSWER 30 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Hydrolysis of alkylene oxides using organometalates

L32 ANSWER 31 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Effects of the addition of various volatile compounds on the reaction of 1-butene catalyzed by tungsten(VI) oxide-silicon oxide

L32 ANSWER 32 OF 36 IFIPAT COPYRIGHT 2004 IFI on STN
TI THIXOTROPIC CLEANING COMPOSITION CONTAINING PARTICULATE RESINS AND FUMED SILICA

L32 ANSWER 33 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Graphite formation on the surface in annealed low carbon steel sheet

L32 ANSWER 34 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
TI Drying and **stabilizing** methylchloroform

L32 ANSWER 35 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

TI Identification of epoxy plasticizers using thin-layer chromatography
 L32 ANSWER 36 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Vulcanization of mixtures of natural or synthetic rubber and light-strengthening fillers

=> d 1,20,22,24,32,34,35 bib ab

L32 ANSWER 1 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2004:162519 CAPLUS
 TI **Stabilization** of trichloroethanes using a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy free radical **stabilizer**
 IN Gorton, Earl M.; Olinger, Ronald D.
 PA USA
 SO U.S. Pat. Appl. Publ., 6 pp., Cont.-in-part of U.S. Ser. No. 436,664.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|------|----------|-----------------|----------|
| PI | US 2004039237 | A1 | 20040226 | US 2003-648972 | 20030827 |
| | US 2004030203 | A1 | 20040212 | US 2003-436664 | 20030513 |
| PRAI | US 2002-396460P | P | 20020716 | | |
| | US 2003-436664 | A2 | 20030513 | | |

AB Trichloroethanes are **stabilized** with a catalytic amount of a stable free radical **stabilizer** [e.g., a material having a 2,2,6,6-tetra(lower alkyl)-1-piperidinyloxy-yl free radical group such as 2,2,6,6-tetramethyl-4-hydroxy-1-piperidinyloxy].

L32 ANSWER 20 OF 36 ANABSTR COPYRIGHT 2004 RSC on STN DUPLICATE 1
 AN 56(8):E90 ANABSTR
 TI Simultaneous determination of 1,1,1-trichloroethane and its **stabilizer** in waterproofing aerosol products by dry-space method.
 AU Mori, K.; Nakamura, Y.; Kaneko, M.; Kan, T.; Nakamura, H. (Tokyo Metropolitan Res. Lab. Public Health, Shinjuku-ku, Tokyo 169, Japan)
 SO Jpn. J. Toxicol. Environ. Health (1993) 39(4), 317-323
 CODEN: JJTHEC ISSN: 0013-273X
 DT Journal
 LA Japanese
 AB Sample (3-4 ml) was mixed with 3-4 ml of the internal standard, 1,2-dichloropropane; 16 µl of the mixture was injected into a 125 ml sealed vial to dry over 3 min. Then 250 µl of the dry-space gas was analysed for its content of 1,1,1-trichloroethane (I), 1,4-dioxan (II), 1,2-epoxybutane (III), nitromethane (IV) and nitroethane (V) by GC on a fused-silica capillary column (30 m + 0.53 mm i.d.) coated with S 2508 (3 µm) and operated at 40°C with He as carrier gas (3.3 ml/min) and FID. Recoveries were 85.6-99.3% with RSD (n = 4) of 3.1-5.4%. Amounts of 48.9-93.1% I were detected, together with 1.42-2.17% II, 200-3100 ppm of III, 500-2800 ppm of IV and 900-1000 ppm of V.

L32 ANSWER 22 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1992:112658 CAPLUS
 DN 116:112658
 TI Low temperature formation and minimization of chlorinated hydrocarbons
 AU Stroemberg, Birgitta
 CS Studsvik Energy, Nkykoeping, S-611 82, Swed.
 SO Chemosphere (1991), 23(8-10), 1515-25
 CODEN: CMSHAF; ISSN: 0045-6535
 DT Journal
 LA English
 AB Formation and minimization of chlorinated compds. was examined under low temperature conditions. Expts. show that chlorinated hydrocarbons such as

alkenes, benzenes, phenols, and biphenyls can be formed with CO₂ and HCl as primary reactants in a **silica** sand bed using various catalysts. Several different conditions, like residence time and temperature, and additives to the bed, (catalysts and **inhibitors**) were tested. Anal. of the reactor effluent showed that catalyst and **inhibitors** play an important role in the formation process and there are at least 2 ways of avoiding chlorinated hydrocarbons in flue gases: cleaning the flue gases with active filters and minimization of the HCl content in the flue gas at temps. above those where the maximum formation of chlorinated compds. takes place.

L32 ANSWER 24 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:187163 CAPLUS

DN 114:187163

TI Manufacture and uses of cellular epoxy resin adhesives

IN Eder, Martin; Zednik, Milan; Vankova, Marcella; Soucek, Jiri

PA Czech.

SO Czech., 4 pp.

CODEN: CZXXA9

DT Patent

LA Czech

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--------------|------|----------|-----------------|----------|
| PI | CS 267463 | B1 | 19900212 | CS 1987-4658 | 19870623 |
| PRAI | CS 1987-4658 | | 19870623 | | |

AB Adhesive epoxy resin films, which cure by foaming at 100-180°, and are useful in assembling honeycomb structures, filling of cavities, and bonding of aircraft components, comprise ≥1 epoxy resin (epoxy equivalent 166-4000) 100, reinforcing fillers 1-35, blowing agents [e.g., (NH₄)₂CO₃, NaHCO₃, KHCO₃, Na₃PO₄.12H₂O, Na₂HPO₄.7H₂O, isoctane, Cl₂C:CCl₂, ClCH:CCl₂, PhSO₃NHNH₂, (4-H₂NNHSO₃C₆H₄)₂O, azobisisobutyronitrile (I), azodicarbonamide, H₂O, or N,N'-dinitrosopentamethylenetetramine] 0.1-10, dicyandiamide (II) 1-15, cure accelerator [e.g., 2,4-(MeNHCONH)2C₆H₃Me (III), 4-ClC₆H₄NHCOMe₂, or thiuram disulfide] 1-20, surfactant 0.1-10, and foam **stabilizer** [e.g., CM-cellulose or poly(vinyl alc.)] 0.1-10 parts. The epoxy resin, filler, and surfactant are mixed at 90-210°, cooled to 40-90°, II, cure accelerator, and blowing agent are added and the mixture is pressed, calendered, or extruded into films. Thus, a bisphenol A-based epoxy resin (epoxy equivalent 2500-4000) 250, gas black (having BET surface area 50 m²/g) 23, **silica** (BET surface area 200 m²/g) 10, and Slovafol 905 2 g were blended at 200-210° for 50 min, cooled to 80° with addition of 150 g low-mol. weight epoxy resin, mixed with a paste containing low-mol. weight epoxy resin 100, II 30, III 30, and I 5 g for

15

min and calendered to a 2-mm thick film, which was cured at 120° for 60 min with foam expansion by 100-200 volume %.

L32 ANSWER 32 OF 36 IFIPAT COPYRIGHT 2004 IFI on STN

AN 01006242 IFIPAT;IFIUDB;IFICDB

TI THIXOTROPIC CLEANING COMPOSITION CONTAINING PARTICULATE RESINS AND FUMED **SILICA**

INF Lautenberger, William Jacob, Wilmington, DE

IN LAUTENBERGER WILLIAM JACOB

PAF E I Du Pont de Nemours and Company, Wilmington, DE

PA DU PONT DE NEMOURS, E I & CO (25048)

EXNAM Engle, Samuel W

EXNAM Palo, Ralph

PI US 3956162 A 19760511 (CITED IN 019 LATER PATENTS)

AI US 1973-370284 19730615

XPD 11 May 1993

FI US 3956162 19760511

DE 2428032

FR 2233396
 GB 1459342
 DT Utility
 FS CHEMICAL
 GRANTED
 OS CA 82:126925
 CLMN 7
 AB A cleaning composition in the form of a thixotropic paste which consists essentially of finely divided insoluble particulate matter, water, a petroleum distillate boiling from 150° to 250°C., a hydrocarbon or halogenated hydrocarbon liquid boiling from about 35° to 75°C., and an emulsifying surfactant.

L32 ANSWER 34 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1974:3069 CAPLUS

DN 80:3069

TI Drying and **stabilizing** methylchloroform

IN Miyazaki, Hidetaka; Takahashi, Masaharu

PA Tokuyama Soda Co., Ltd.

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | JP 48067206 | A2 | 19730913 | JP 1971-102680 | 19711220 |
| PRAI | JP 1971-102680 | | 19711220 | | |
| AB | MeCCl ₃ was washed with 2% aqueous Na ₂ CO ₃ and dried with synthetic zeolite (H or Na type) to 20 ppm H ₂ O. After storage for 1 week, it had pH 7.0 vs. 1.7 for the control (drying with silica or alumina). | | | | |

L32 ANSWER 35 OF 36 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1973:85264 CAPLUS

DN 78:85264

TI Identification of epoxy plasticizers using thin-layer chromatography

AU Kreiner, J. G.

CS Res. Dev. Cent., Gen. Tire Rubber Co., Akron, OH, USA

SO Journal of Chromatography (1973), 75(2), 271-6

CODEN: JOCRAM; ISSN: 0021-9673

DT Journal

LA English

AB Multicomponent epoxy plasticizers and **stabilizers** used in poly(vinyl chloride) [9002-86-2] compns. were identified by thin-layer chromatog. on **Silica** Gel G using a H₂SO₄-anisaldehyde [123-11-5] chromogenic indicator and either 3:1 Cl₃CMe-CH₂Cl₂ or 75:25:2 Cl₃CMe-CH₂Cl₂-MeCOEt mixture inhibited with 1,4-dioxane. Data are given for 11 epoxy plasticizers, bis(2-ethylhexyl) phthalate [117-81-7], bis(2-ethylhexyl) azelate [103-24-2], tris(2-ethylhexyl) trimellitate [3319-31-1], and MeOH-extracted PVC compns.

=> file patent

FILE 'ENCOMPAT' ACCESS NOT AUTHORIZED

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

2257.10

2591.41

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-16.63

-18.71

FILE 'CAOLD' ENTERED AT 04:06:52 ON 22 MAR 2004

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FILE 'WPIDS' ENTERED AT 04:06:52 ON 22 MAR 2004
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FILE 'WPINDEX' ACCESS NOT AUTHORIZED

=> fsearch jp09328444/pn

SEA JP09328444/PN
95% OF LIMIT FOR L#S REACHED
L33 4 JP09328444/PN

FSE
*** ITERATION 1 ***

SET SMARTSELECT ON
SET COMMAND COMPLETED

SET HIGHLIGHTING OFF
SET COMMAND COMPLETED

SEL L33 1- PN,APPS
L34 SEL L33 1- PN APPS : 2 TERMS

SEA L34
MAXIMUM L# WOULD BE EXCEEDED.

DEL L***- Y
L***- IS NOT VALID HERE
The DELETE command is used to remove various items stored by the system.

To delete a saved query, saved answer set, saved L-number list, SDI request, batch request, mailing list, or user-defined cluster, format, or search field, enter the name. The name may include ? for left, right, or simultaneous left and right truncation.

Examples:

| | |
|------------------------|--|
| DELETE BIO?/Q | - delete query names starting with BIO |
| DELETE ?DRUG/A | - delete answer set names ending with DRUG |
| DELETE ?ELEC?/L | - delete L-number lists containing ELEC |
| DELETE ANTICOAG/S | - delete SDI request |
| DELETE ENZYME/B | - delete batch request |
| DELETE .MYCLUSTER | - delete user-defined cluster |
| DELETE .MYFORMAT | - delete user-defined display format |
| DELETE .MYFIELD | - delete user-defined search field |
| DELETE NAMELIST MYLIST | - delete mailing list |

To delete an ordered document or an offline print, enter its number.

Examples:

| | |
|-----------------|---------------------------------|
| DELETE P123001C | - delete print request |
| DELETE D134002C | - delete document order request |

To delete an individual L-number or range of L-numbers, enter the L-number or L-number range. You may also enter DELETE LAST followed by a number, n, to delete the last n L-numbers. RENUMBER or NORENUMBER may also be explicitly specified to override the value of SET RENUMBER.

Examples:

| | |
|-----------------------|--|
| DELETE L21 | - delete a single L-number |
| DELETE L3-L6 | - delete a range of L-numbers |
| DELETE LAST 4 | - delete the last 4 L-numbers |
| DELETE L33- | - delete L33 and any higher L-number |
| DELETE -L55 | - delete L55 and any lower L-number |
| DELETE L2-L6 RENUMBER | - delete a range of L-numbers and renumber remaining L-numbers |
| DELETE RENUMBER | - renumber L-numbers after deletion of intermediate L-numbers |

Entire sets of saved items, SDI requests, batch requests, user-defined items, or E-numbers can be deleted.

Examples:

| | |
|----------------|---|
| DELETE SAVED/Q | - delete all saved queries |
| DELETE SAVED/A | - delete all saved answer sets |
| DELETE SAVED/L | - delete all saved L-number lists |
| DELETE SAVED | - delete all saved queries, answer sets, and L-number lists |
| DELETE SAVED/S | - delete all SDI requests |
| DELETE SAVED/B | - delete all batch requests |
| DELETE CLUSTER | - delete all user-defined clusters |
| DELETE FORMAT | - delete all user-defined display formats |
| DELETE FIELD | - delete all user-defined search fields |
| DELETE SELECT | - delete all E-numbers |
| DELETE HISTORY | - delete all L-numbers and restart the session at L1 |

To delete an entire multifile SDI request, enter DELETE and the name of the request. To delete a component from the

multifile SDI, enter DELETE and the name of the component.

DEL L34- Y

SET HIGHLIGHTING DEF
SET COMMAND COMPLETED

SET SMARTSELECT OFF
SET COMMAND COMPLETED

=> d 1-4 ti

L33 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
TI Decomposition inhibitors containing 1-oxylpiperidines and inhibition of decomposition of chlorohydrocarbons by using them

L33 ANSWER 2 OF 4 INPADOC COPYRIGHT 2004 EPO on STN
TI DEGRADATION RETARDER OF CHLORINATED HYDROCARBON AND RETARDATION OF DEGRADATION.

L33 ANSWER 3 OF 4 JAPIO (C) 2004 JPO on STN
TI DEGRADATION RETARDER OF CHLORINATED HYDROCARBON AND RETARDATION OF DEGRADATION

L33 ANSWER 4 OF 4 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
TI Decomposition inhibitors for chloro-hydrocarbon(s) - comprise piperidine-1-oxyl as main component, added during production/purification or storage to increase purity, facilitate stabilisation of process and ensure safety operation of apparatus.

=> d 1-4 all

L33 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:8627 CAPLUS
DN 128:61255
ED Entered STN: 08 Jan 1998
TI Decomposition inhibitors containing 1-oxylpiperidines and inhibition of decomposition of chlorohydrocarbons by using them
IN Nakashima, Sadao; Tanisaki, Seiji; Nakamura, Shutaro
PA Hakuto K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C07C019-01
 ICS C07C017-42; C07C021-18
CC 23-3 (Aliphatic Compounds)
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|--------------|
| PI | JP 09328444 | A2 | 19971222 | JP 1996-145880 | 19960607 <-- |
| PRAI | JP 1996-145880 | | 19960607 | | |
| OS | MARPAT 128:61255 | | | | |
| AB | The title inhibitors are useful in preparation, purification, and storage of chlorohydrocarbons. 1,1,1-Trichloroethane was refluxed with FeCl ₃ and 100 ppm 2,2,6,6-tetramethylpiperidine-1-oxyl for 1 h to form 0.2% vinylidene chloride (99% decomposition inhibition). | | | | |
| ST | oxylpiperidine inhibitor decompr chlorohydrocarbon; chloroethane decompr inhibitor methylpiperidinyloxyl | | | | |
| IT | Decomposition
Stabilizing agents
(1-oxylpiperidines for decomposition inhibition of chlorohydrocarbons) | | | | |
| IT | Hydrocarbons, miscellaneous
RL: MSC (Miscellaneous) | | | | |

(chloro; 1-oxylpiperidines for decomposition inhibition of chlorohydrocarbons)

IT 2226-96-2, HTEMPO 2516-92-9 2564-83-2, TEMPO 6599-87-7 200433-13-2
RL: MOA (Modifier or additive use); USES (Uses)
(1-oxylpiperidines for decomposition inhibition of chlorohydrocarbons)

IT 71-55-6, 1,1,1-Trichlorethane
RL: MSC (Miscellaneous)
(1-oxylpiperidines for decomposition inhibition of chlorohydrocarbons)

L33 ANSWER 2 OF 4 INPADOC COPYRIGHT 2004 EPO on STN

LEVEL 1

AN 103691621 INPADOC EW 199807 UW 199818
TI DEGRADATION RETARDER OF CHLORINATED HYDROCARBON AND RETARDATION OF DEGRADATION.
IN NAKAJIMA SADAO; TANIZAKI SEIJI; NAKAMURA SOTARO
INS NAKAJIMA SADAO; TANIZAKI SEIJI; NAKAMURA SOTARO
PA HAKUTO CO LTD
PAS HAKUTO KK
TL English
DT Patent
PIT JPA2 DOCUMENT LAID OPEN TO PUBLIC INSPECTION
PI JP 09328444 A2 19971222
AI JP 1996-145880 A 19960607
PRAI JP 1996-145880 A 19960607
OSCA 128:061255
OSDW 98-105091
ICM (6) C07C019-01
ICS (6) C07C017-42; (6) C07C021-18

L33 ANSWER 3 OF 4 JAPIO (C) 2004 JPO on STN

AN 1997-328444 JAPIO
TI DEGRADATION RETARDER OF CHLORINATED HYDROCARBON AND RETARDATION OF DEGRADATION.
IN NAKAJIMA SADAO; TANIZAKI SEIJI; NAKAMURA SOTARO
PA HAKUTO CO LTD
PI JP 09328444 A 19971222 Heisei
AI JP 1996-145880 (JP08145880 Heisei) 19960607
PRAI JP 1996-145880 19960607
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1997
IC ICM C07C019-01
ICS C07C017-42; C07C021-18
AB PROBLEM TO BE SOLVED: To obtain degradation retarder of a chlorinate hydrocarbon comprising pyperidine-1-oxyl group, capable of efficiently retarding a degradation of chlorinated hydrocarbons when purifying by a distillation or storing.
SOLUTION: This degradation retarder consists essentially of pyperidine-1-oxyl group of formula I, II, III and IV (R<SP>1</SP> is a 1-3C alkyl; R<SP>2</SP> is H, OH or OR<SP>3</SP>; R<SP>3</SP> is a 1-3C alkyl or phenyl; R<SP>4</SP> is H or a 1-17C alkyl; X is a 1-8C alkylene or phenylene). The addition amount of the compound based on the amount of the chlorinated hydrocarbon is 0.05-200wt.ppm, especially 1-20wt.ppm. The pyperidine-1-oxyl group prevents the plugging of the pipeline of a distillation equipment because not forming a solid salt and can efficiently retard the degradation of the chlorinated hydrocarbon so can improve the purity of the chlorinated hydrocarbons further stabilize the process and facilitate a safety operation of the equipment.
COPYRIGHT: (C)1997, JPO

L33 ANSWER 4 OF 4 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN

AN 1998-105091 [10] WPIDS
DNC C1998-034822
TI Decomposition inhibitors for chloro-hydrocarbon(s) - comprise piperidine-1-oxyl as main component, added during production/purification

or storage to increase purity, facilitate stabilisation of process and ensure safety operation of apparatus.

DC E13 E19
PA (HAKU-N) HAKUTO KK
CYC 1
PI JP 09328444 A 19971222 (199810)* 4p C07C019-01 <--
ADT JP 09328444 A JP 1996-145880 19960607
PRAI JP 1996-145880 19960607
IC ICM C07C019-01
ICS C07C017-42; C07C021-18
AB JP 09328444 A UPAB: 19980309

Decomposition inhibitors (II) for chlorohydrocarbons (I) comprise piperidine-1-oxyl as the main component. Also claimed is a method for inhibition of decomposition of (I) comprising adding (II) during the production/purification or storage of (I).

MORE SPECIFICALLY - (I) are 1-10C optionally saturated and optionally cyclic ones and (II) are selected from (IIa)-(IId). R1 = 1-3C alkyl; R2 = H, OH or OR3; R3= 1-3C alkyl or phenyl; R4 = H, 1-17C alkyl; and X = 1-8C alkylene or phenylene.

ADVANTAGE - Decomposition of (I) during their distillation/purification or storage can be efficiently suppressed to increase their purity and facilitate stabilisation of the process and ensure safety operation of the apparatus.

Dwg.0/0

FS CPI
FA AB; GI; DCN
MC CPI: E07-D05; E10-H03C

=> fsearch jp48067206/pn

SEA JP48067206/PN
MAXIMUM L# WOULD BE EXCEEDED.

FSE
*** ITERATION 1 ***

SET SMARTSELECT ON
SET COMMAND COMPLETED

SET HIGHLIGHTING OFF
SET COMMAND COMPLETED

SEL L33 1- PN,APPS
L34 SEL L33 1- PN APPS : 2 TERMS

SEA L34
MAXIMUM L# WOULD BE EXCEEDED.

DEL L***- Y
L***- IS NOT VALID HERE
The DELETE command is used to remove various items stored by the system.

To delete a saved query, saved answer set, saved L-number list, SDI request, batch request, mailing list, or user-defined cluster, format, or search field, enter the name. The name may include ? for left, right, or simultaneous left and right truncation.

Examples:

| | |
|-----------------|--|
| DELETE BIO?/Q | - delete query names starting with BIO |
| DELETE ?DRUG/A | - delete answer set names ending with DRUG |
| DELETE ?ELEC?/L | - delete L-number lists containing ELEC |

```
DELETE ANTICOAG/S      - delete SDI request
DELETE ENZYME/B        - delete batch request
DELETE .MYCLUSTER      - delete user-defined cluster
DELETE .MYFORMAT        - delete user-defined display format
DELETE .MYFIELD         - delete user-defined search field
DELETE NAMELIST MYLIST - delete mailing list
```

To delete an ordered document or an offline print, enter its number.

Examples:

```
DELETE P123001C        - delete print request
DELETE D134002C        - delete document order request
```

To delete an individual L-number or range of L-numbers, enter the L-number or L-number range. You may also enter DELETE LAST followed by a number, n, to delete the last n L-numbers. RENUMBER or NORENUMBER may also be explicitly specified to override the value of SET RENUMBER.

Examples:

```
DELETE L21              - delete a single L-number
DELETE L3-L6             - delete a range of L-numbers
DELETE LAST 4            - delete the last 4 L-numbers
DELETE L33-              - delete L33 and any higher L-number
DELETE -L55              - delete L55 and any lower L-number
DELETE L2-L6 RENUMBER   - delete a range of L-numbers and
                         renumber remaining L-numbers
DELETE RENUMBER          - renumber L-numbers after deletion of
                         intermediate L-numbers
```

Entire sets of saved items, SDI requests, batch requests, user-defined items, or E-numbers can be deleted.

Examples:

```
DELETE SAVED/Q          - delete all saved queries
DELETE SAVED/A          - delete all saved answer sets
DELETE SAVED/L          - delete all saved L-number lists
DELETE SAVED            - delete all saved queries, answer sets,
                         and L-number lists
DELETE SAVED/S          - delete all SDI requests
DELETE SAVED/B          - delete all batch requests
DELETE CLUSTER          - delete all user-defined clusters
DELETE FORMAT           - delete all user-defined display formats
DELETE FIELD             - delete all user-defined search fields
DELETE SELECT            - delete all E-numbers
DELETE HISTORY          - delete all L-numbers and restart the
                         session at L1
```

To delete an entire multifile SDI request, enter DELETE and the name of the request. To delete a component from the multifile SDI, enter DELETE and the name of the component.

DEL L34- Y

```
SET HIGHLIGHTING DEF
SET COMMAND COMPLETED
```

```
SET SMARTSELECT OFF
SET COMMAND COMPLETED
```

=> d

L33 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:8627 CAPLUS
 DN 128:61255
 TI Decomposition inhibitors containing 1-oxylpiperidines and inhibition of decomposition of chlorohydrocarbons by using them
 IN Nakashima, Sadao; Tanisaki, Seiji; Nakamura, Shutaro
 PA Hakuto K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|-----------|----------|-----------------|--------------|
| PI | JP 09328444 | A2 | 19971222 | JP 1996-145880 | 19960607 <-- |
| PRAI | JP 1996-145880 | | | | |
| OS | MARPAT | 128:61255 | | | |

=> d his

(FILE 'HOME' ENTERED AT 02:40:06 ON 22 MAR 2004)

FILE 'REGISTRY' ENTERED AT 02:40:28 ON 22 MAR 2004

L1 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL)SEBACATE"
 L2 0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL)SEBACATE"/CN

FILE 'STNGUIDE' ENTERED AT 02:41:55 ON 22 MAR 2004

FILE 'STNGUIDE' ENTERED AT 02:46:42 ON 22 MAR 2004

FILE 'REGISTRY' ENTERED AT 02:53:17 ON 22 MAR 2004

L3 SCREEN 966
 L4 SCREEN 2016 OR 2021
 L5 STRUCTURE uploaded
 L6 QUE L5 AND L3 NOT L4
 L7 0 S L6
 L8 0 S L6 FUL
 L9 0 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
 L10 20223 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
 L11 3433 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?

FILE 'CAPLUS, USPATFULL' ENTERED AT 03:00:55 ON 22 MAR 2004

L12 7767 S L11
 L13 3 S L12 AND (127-18-4 OR 71-55-6 OR 79-00-5)
 L14 3 DUP REM L13 (0 DUPLICATES REMOVED)

FILE 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE, BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN, COMPENDEX, CONFSCI, COPPERLIT, CORROSION, DISSABS, ENCOMPLIT2, FEDRIP, GENBANK, INSPEC, INSPHYS, INVESTTEXT, IPA, ...' ENTERED AT 03:04:20 ON 22 MAR 2004

L15 32173 S 127-18-4 OR 71-55-6 OR 79-00-5
 L16 3 S FREE RADICAL STABILIZER AND L15
 L17 2 DUP REM L16 (1 DUPLICATE REMOVED)
 L18 4 S L15 AND L11
 L19 3 DUP REM L18 (1 DUPLICATE REMOVED)
 L20 236 S BIS (20A) 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?
 L21 0 S L15 AND L20
 L22 13397 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
 L23 5 S L22 AND L15
 L24 4 DUP REM L23 (1 DUPLICATE REMOVED)
 L25 1181 S 2,2,5,5-TETRAMETHYL (20A) PYRROLIDIN?

L26 0 S L15 AND L25
L27 75130 S (OXIDATION OR DECOMPOSITION) (20A) (INHIBITOR? OR STABILIZ?)
L28 45 S L15 AND L27
L29 42 DUP REM L28 (3 DUPLICATES REMOVED)
L30 1 S L15 (25A) (INHIBITOR? OR STABILIZ?) (25A) SILICA
L31 37 S L15 AND (INHIBITOR? OR STABILIZ?) AND SILICA
L32 36 DUP REM L31 (1 DUPLICATE REMOVED)

FILE 'CAOLD, CAPLUS, CASREACT, CROPU, DGENE, DPCI, ENCOMPPAT2,
EUROPATFULL, FSTA, IFIPAT, INPADOC, JAPIO, NTIS, PAPERCHEM2, PATDD,
PATDPA, PATDP FULL, PATOSDE, PATOSEP, PATOSWO, PCTFULL, PCTGEN, PIRA,
RAPRA, RDISCLOSURE, SYNTHLINE, TULSA, TULSA2, USPATFULL, ...' ENTERED AT
04:06:52 ON 22 MAR 2004

L33 4 SEA JP09328444/PN
SET SMARTSELECT ON
SET HIGHLIGHTING OFF
SET HIGHLIGHTING DEF
SET SMARTSELECT OFF
SET SMARTSELECT ON
SET HIGHLIGHTING OFF
SET HIGHLIGHTING DEF
SET SMARTSELECT OFF

=> fsearch jp48067206/pn

SEA JP48067206/PN
MAXIMUM L# WOULD BE EXCEEDED.

FSE
*** ITERATION 1 ***

SET SMARTSELECT ON
SET COMMAND COMPLETED

SET HIGHLIGHTING OFF
SET COMMAND COMPLETED

SEL L33 1- PN,APPS
L34 SEL L33 1- PN APPS : 2 TERMS

SEA L34
MAXIMUM L# WOULD BE EXCEEDED.

DEL L***- Y
L***- IS NOT VALID HERE
The DELETE command is used to remove various items stored by the system.

To delete a saved query, saved answer set, saved L-number list, SDI request, batch request, mailing list, or user-defined cluster, format, or search field, enter the name. The name may include ? for left, right, or simultaneous left and right truncation.

Examples:

| | |
|------------------------|--|
| DELETE BIO?/Q | - delete query names starting with BIO |
| DELETE ?DRUG/A | - delete answer set names ending with DRUG |
| DELETE ?ELEC?/L | - delete L-number lists containing ELEC |
| DELETE ANTIKOAG/S | - delete SDI request |
| DELETE ENZYME/B | - delete batch request |
| DELETE .MYCLUSTER | - delete user-defined cluster |
| DELETE .MYFORMAT | - delete user-defined display format |
| DELETE .MYFIELD | - delete user-defined search field |
| DELETE NAMELIST MYLIST | - delete mailing list |

To delete an ordered document or an offline print, enter its number.

Examples:

```
DELETE P123001C      - delete print request  
DELETE D134002C      - delete document order request
```

To delete an individual L-number or range of L-numbers, enter the L-number or L-number range. You may also enter DELETE LAST followed by a number, n, to delete the last n L-numbers. RENUMBER or NORENUMBER may also be explicitly specified to override the value of SET RENUMBER.

Examples:

```
DELETE L21          - delete a single L-number  
DELETE L3-L6         - delete a range of L-numbers  
DELETE LAST 4        - delete the last 4 L-numbers  
DELETE L33-          - delete L33 and any higher L-number  
DELETE -L55          - delete L55 and any lower L-number  
DELETE L2-L6 RENUMBER - delete a range of L-numbers and  
                         renumber remaining L-numbers  
DELETE RENUMBER      - renumber L-numbers after deletion of  
                         intermediate L-numbers
```

Entire sets of saved items, SDI requests, batch requests, user-defined items, or E-numbers can be deleted.

Examples:

```
DELETE SAVED/Q - delete all saved queries  
DELETE SAVED/A - delete all saved answer sets  
DELETE SAVED/L - delete all saved L-number lists  
DELETE SAVED    - delete all saved queries, answer sets,  
                  and L-number lists  
DELETE SAVED/S - delete all SDI requests  
DELETE SAVED/B - delete all batch requests  
DELETE CLUSTER - delete all user-defined clusters  
DELETE FORMAT - delete all user-defined display formats  
DELETE FIELD   - delete all user-defined search fields  
DELETE SELECT  - delete all E-numbers  
DELETE HISTORY - delete all L-numbers and restart the  
                  session at L1
```

To delete an entire multifile SDI request, enter DELETE and the name of the request. To delete a component from the multifile SDI, enter DELETE and the name of the component.

DEL L34- Y

```
SET HIGHLIGHTING DEF  
SET COMMAND COMPLETED
```

```
SET SMARTSELECT OFF  
SET COMMAND COMPLETED
```

=> d his

```
(FILE 'HOME' ENTERED AT 02:40:06 ON 22 MAR 2004)
```

```
FILE 'REGISTRY' ENTERED AT 02:40:28 ON 22 MAR 2004  
L1      0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL)SEBACATE"  
L2      0 S "BIS(2,2,6,6-TETRAMETHYL-1-PIPERDINYLOXY-4-YL)SEBACATE"/CN
```

FILE 'STNGUIDE' ENTERED AT 02:41:55 ON 22 MAR 2004

FILE 'STNGUIDE' ENTERED AT 02:46:42 ON 22 MAR 2004

FILE 'REGISTRY' ENTERED AT 02:53:17 ON 22 MAR 2004

L3 SCREEN 966
L4 SCREEN 2016 OR 2021
L5 STRUCTURE UPLOADED
L6 QUE L5 AND L3 NOT L4
L7 0 S L6
L8 0 S L6 FUL
L9 0 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L10 20223 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L11 3433 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?

FILE 'CPLUS, USPATFULL' ENTERED AT 03:00:55 ON 22 MAR 2004

L12 7767 S L11
L13 3 S L12 AND (127-18-4 OR 71-55-6 OR 79-00-5)
L14 3 DUP REM L13 (0 DUPLICATES REMOVED)

FILE 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE, BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB, CIN, COMPENDEX, CONFSCI, COPPERLIT, CORROSION, DISSABS, ENCOMPLIT2, FEDRIP, GENBANK, INSPEC, INSPHYS, INVESTTEXT, IPA, ...' ENTERED AT 03:04:20 ON 22 MAR 2004

L15 32173 S 127-18-4 OR 71-55-6 OR 79-00-5
L16 3 S FREE RADICAL STABILIZER AND L15
L17 2 DUP REM L16 (1 DUPLICATE REMOVED)
L18 4 S L15 AND L11
L19 3 DUP REM L18 (1 DUPLICATE REMOVED)
L20 236 S BIS (20A) 2,2,6,6-TETRAMETHYL (20A) PIPERIDINYLOXY?
L21 0 S L15 AND L20
L22 13397 S 2,2,6,6-TETRAMETHYL (20A) PIPERIDIN?
L23 5 S L22 AND L15
L24 4 DUP REM L23 (1 DUPLICATE REMOVED)
L25 1181 S 2,2,5,5-TETRAMETHYL (20A) PYRROLIDIN?
L26 0 S L15 AND L25
L27 75130 S (OXIDATION OR DECOMPOSITION) (20A) (INHIBITOR? OR STABILIZ?)
L28 45 S L15 AND L27
L29 42 DUP REM L28 (3 DUPLICATES REMOVED)
L30 1 S L15 (25A) (INHIBITOR? OR STABILIZ?) (25A) SILICA
L31 37 S L15 AND (INHIBITOR? OR STABILIZ?) AND SILICA
L32 36 DUP REM L31 (1 DUPLICATE REMOVED)

FILE 'CAOLD, CAPLUS, CASREACT, CROPU, DGENE, DPCI, ENCOMPPAT2, EUROPATFULL, FSTA, IFIPAT, INPADOC, JAPIO, NTIS, PAPERCHEM2, PATDD, PATDPA, PATDPAPULL, PATOSDE, PATOSEP, PATOSWO, PCTFULL, PCTGEN, PIRA, RAPRA, RDISCLOSURE, SYNTHLINE, TULSA, TULSA2, USPATFULL, ...' ENTERED AT 04:06:52 ON 22 MAR 2004

L33 4 SEA JP09328444/PN
SET SMARTSELECT ON
SET HIGHLIGHTING OFF
SET HIGHLIGHTING DEF
SET SMARTSELECT OFF
SET SMARTSELECT ON
SET HIGHLIGHTING OFF
SET HIGHLIGHTING DEF
SET SMARTSELECT OFF
SET SMARTSELECT ON
SET HIGHLIGHTING OFF
SET HIGHLIGHTING DEF
SET SMARTSELECT OFF

=> log y
COST IN U.S. DOLLARS

| | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 56.04 | 2647.45 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -0.69 | -19.40 |

STN INTERNATIONAL LOGOFF AT 04:12:24 ON 22 MAR 2004